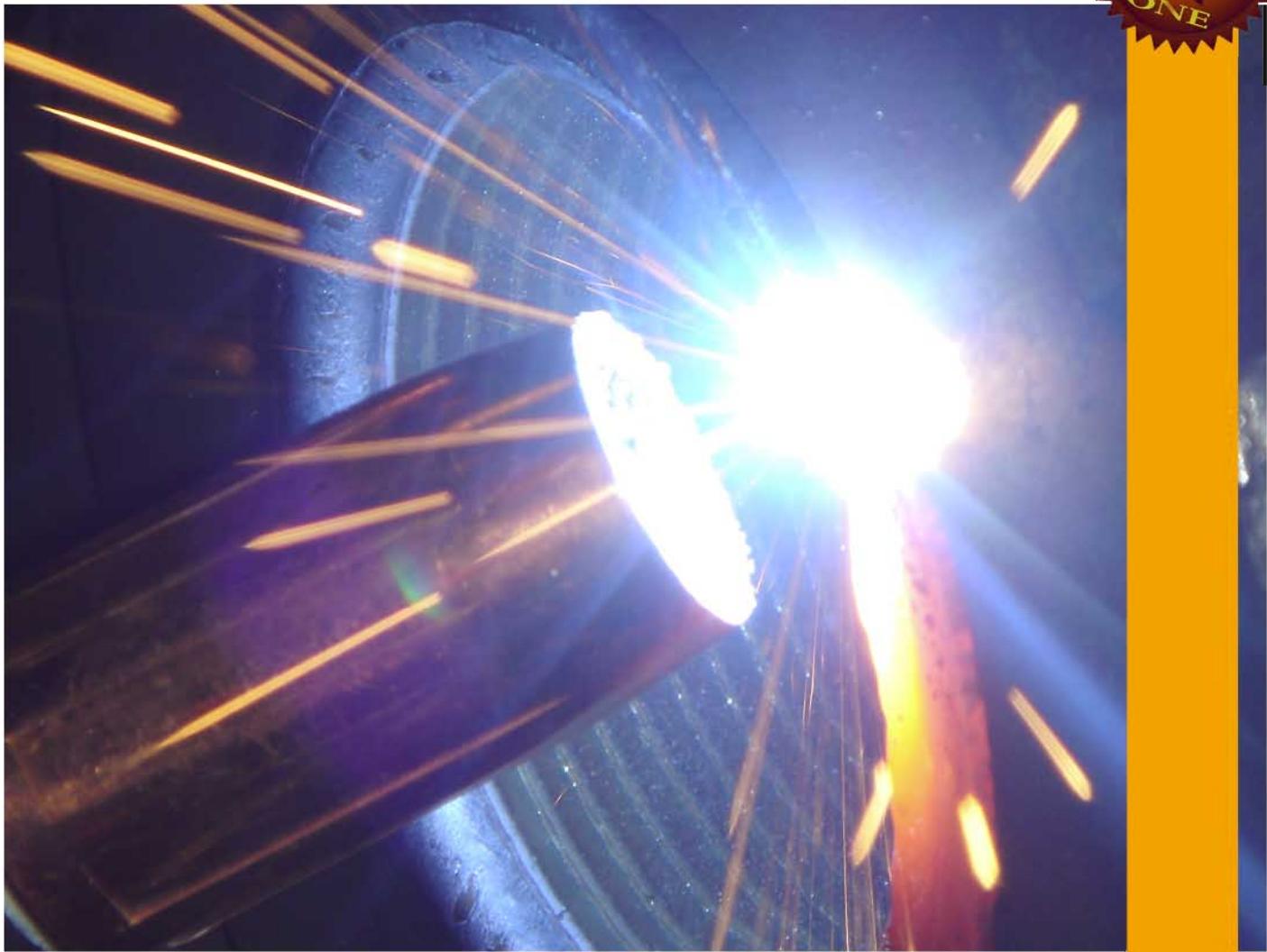


# ■ QUALITY BORE REPAIR SOLUTIONS



■ Professional bore welders, boring bars and accessories



THE BEST OR NOTHING

**Value - Experience - Service - Support**

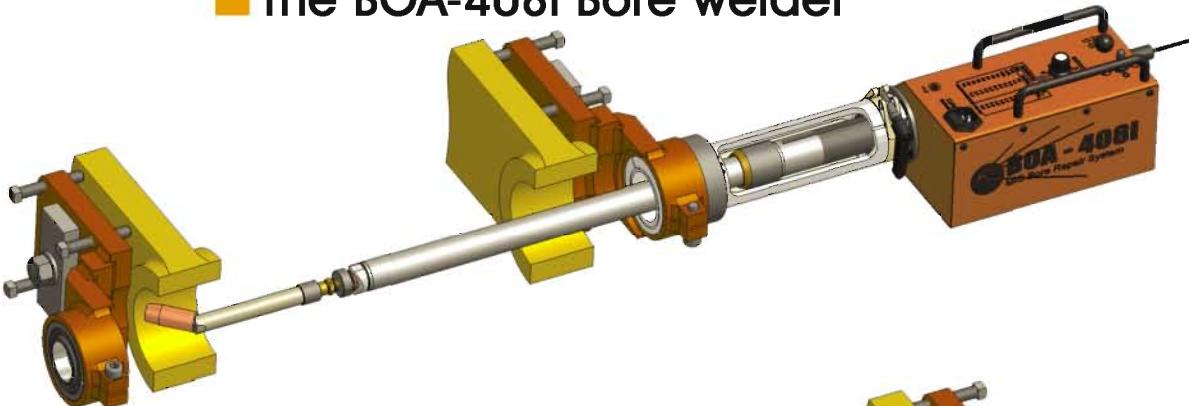
[www.borerepair.com](http://www.borerepair.com) - 603-835-2409 int'l - 800-650-1005 USA/CAN

# BORE REPAIR MADE EASY



Introducing our elegantly simple, ultra reliable bore welders and boring bars for top quality bore repairs on all types of machinery.

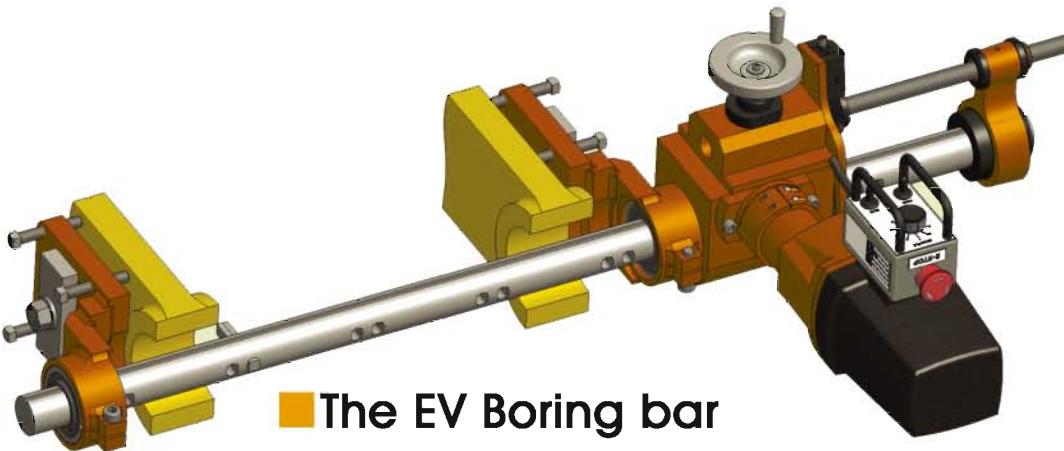
## ■ The BOA-408i Bore welder



## ■ The BOA-M1 Bore welder



Bore welder and boring bar are integrated with our center mount system. This gives unparalleled ease of setup and use on all makes, models and types of equipment.



## ■ The EV Boring bar

The professional's choice...worldwide.

**Value — Experience — Service — Support**

# BORE REPAIR MADE EASY



THE BEST OR NOTHING

Bore Repair Systems, Inc. equipment is designed by users, for users. This is why our systems are the only portable bore repair systems that are built with the TOP 10 most valuable features in the industry.

## TOP 10 LIST OF MOST VALUABLE FEATURES FOR EASY BORE REPAIR

- #1 - Pass-thru drive design on both bore welder and boring bar - you will not have to re-mount the boring bar or welder drive when working on widely spaced bores on heavy equipment
- #2 - Telescoping and reversible welding gun - no clumsy welding gun extensions are required when welding multiple inline bores
- #3 - Center-mount bore welder to boring bar interface - simply attach your bore welder directly on centerline of boring bar with no centering or realignment needed
- #4 - Mechanical axial feed can never get out of calibration - no chance of weld penetration problems with a BOA
- #5 - Unique standard adjustable welding gun has the largest diameter range in the industry - no need for multiple welding guns
- #6 - Welding gun nozzles are electrically isolated and will not "arc out" when making contact with bore wall
- #7 - Standard welding guns utilize inexpensive and easy to change thread-on welding tips and nozzles
- #8 - Dual tool ports on boring bars - enables easy, accurate bore diameter measurements and tool adjustments, without having to remove bar or cutter
- #9 - Mechanical feed system on all boring bar drives - fixed or variable feed rates run in direct conjunction with bar rotation providing smoothest possible surface finishes
- #10 - Infinitely adjustable rotation speeds on boring bar drives enable use of wide variety of cutters including carbide, high speed steel and snap-ring cutters

## CUSTOMER COMMENTS:

>*Rick from Smitty's writes:*

"We absolutely love our Bore Repair System. We've been doing lots of ID's and OD's and it just works great!"

>*MJ McCarroll writes:*

"I would not trade my BOA bore welder for anything, it is that good."

>*Turner Diesel writes:*

"I am amazed at how great our BOA bore welder works, it's been a real asset to our business."

>*Gary from Clark's Repair writes:*

"Man I love my Bore Repair System, it just works great."

>*Dan A. writes:*

(After 5 years of ownership) "I use my BOA bore welder all the time and am considering adding a second machine soon...It has been an excellent addition to my business and always works for me and does a great job."

>*Joe L. writes:*

"I purchased one of your BRS3 welding/boring systems from you and just wanted to let you know that it is everything you said it was, I am very pleased with it, and thank you."

>*Peter M. writes:*

"The BRS3 boring and welding system I purchased from you works great. You have a very good product."

- All of us at Bore Repair Systems, Inc. look forward to working with you and helping you with all your bore repair needs.

The professional's choice...worldwide.

**Value — Experience — Service — Support**

[www.borerepair.com](http://www.borerepair.com) - 603-835-2409 Int'l - 800-650-1005 USA/CAN

# SETUP OF BORE REPAIR SYSTEM



#1. Center boring bar using centering kit & attach supports



#4. Insert BOA bore welder into support using interface kit



#2. Insert boring bar drive and motor



#5. Attach BOA bore welder to your MIG feeder and apply weld



#3. Machine the bore to clean and prepare for welding



#6. Slide boring bar back through supports and machine bore to size



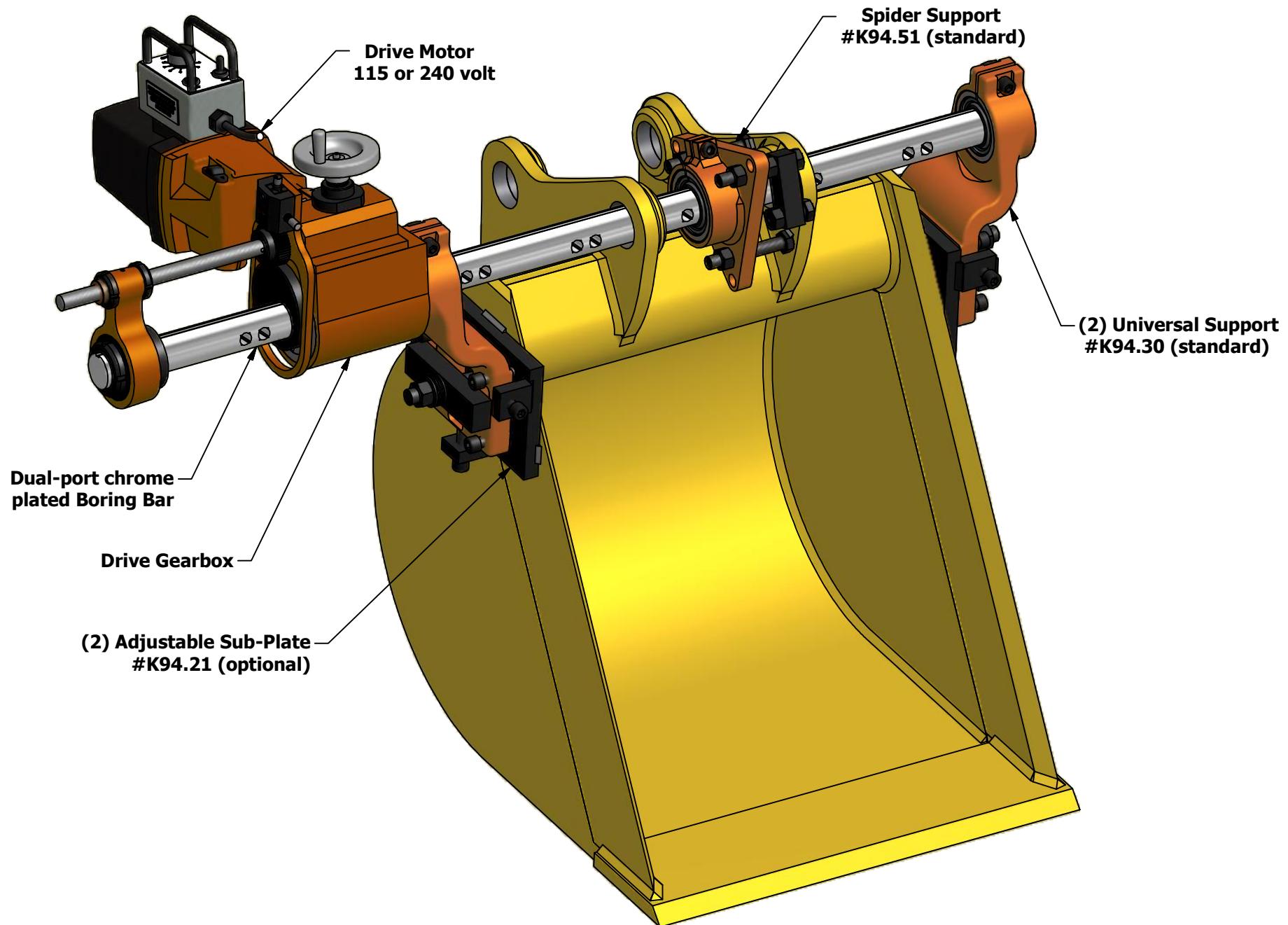
Time is money and our integrated BRS systems saves you both. Cut welding time by 80% and machining time by 50% by using reliable, affordable Bore Repair Systems' integrated bore welder and boring bar systems.

The professional's choice...worldwide.

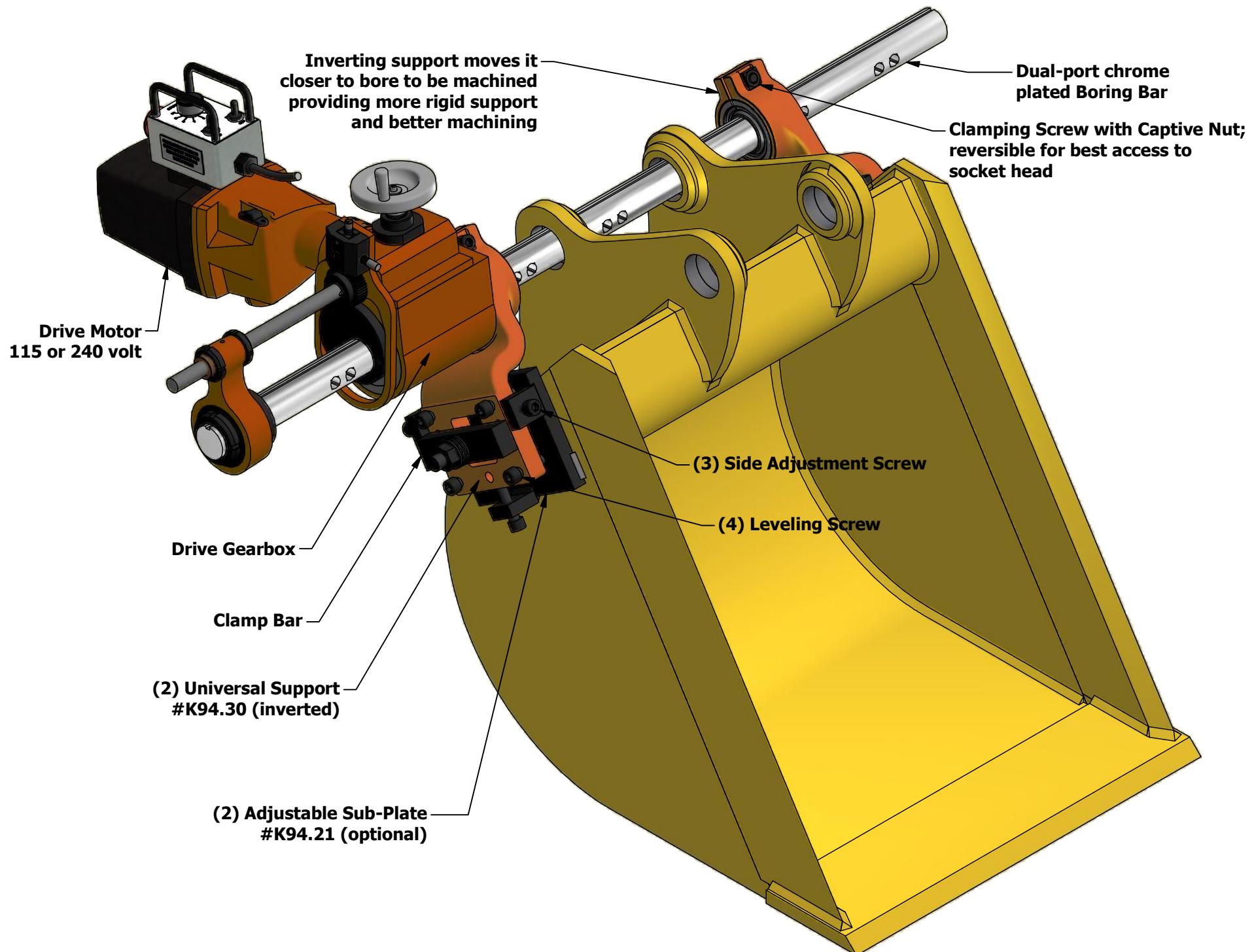
**Value — Experience — Service — Support**

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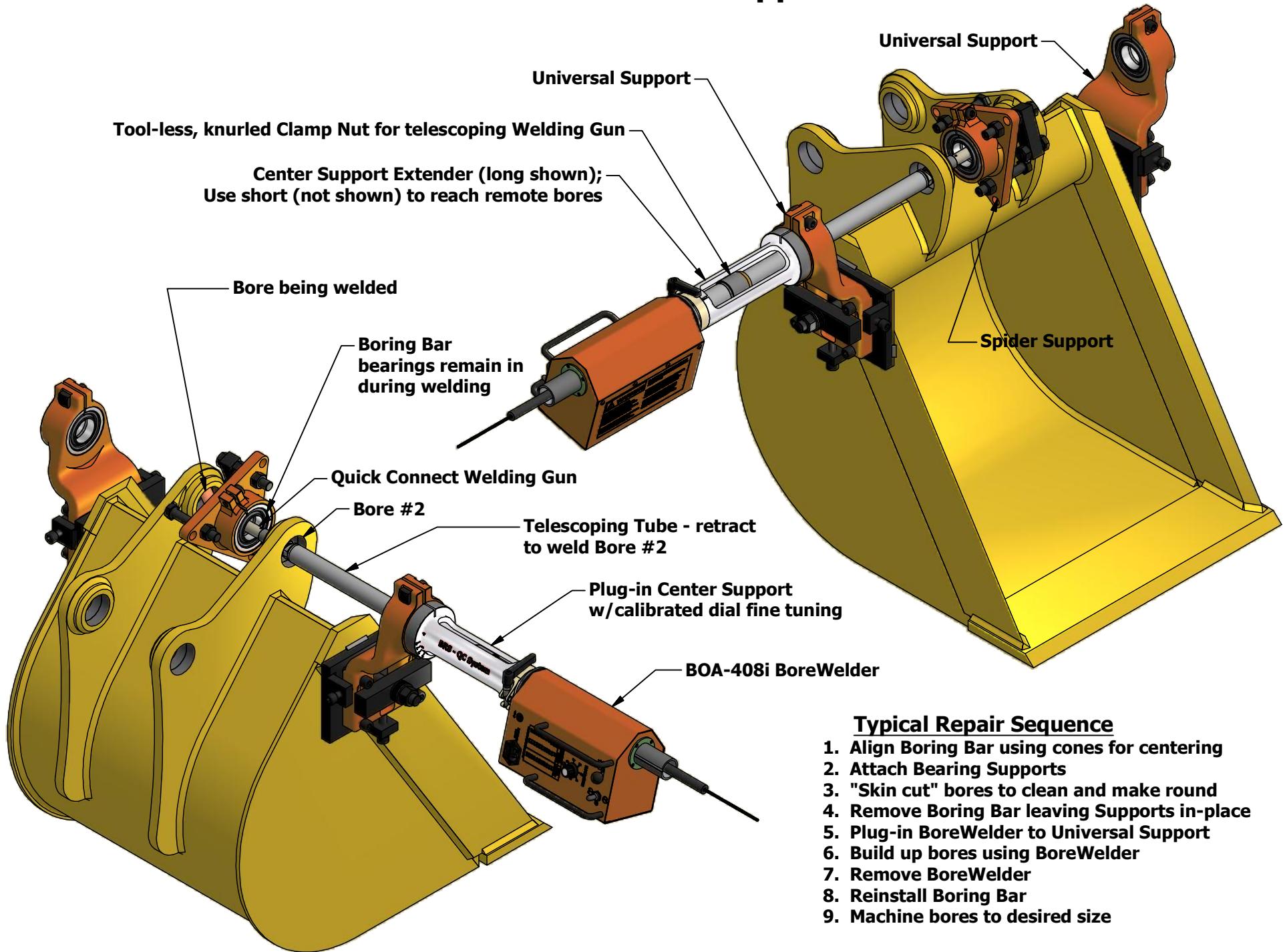
## Standard Boring Bar Setup



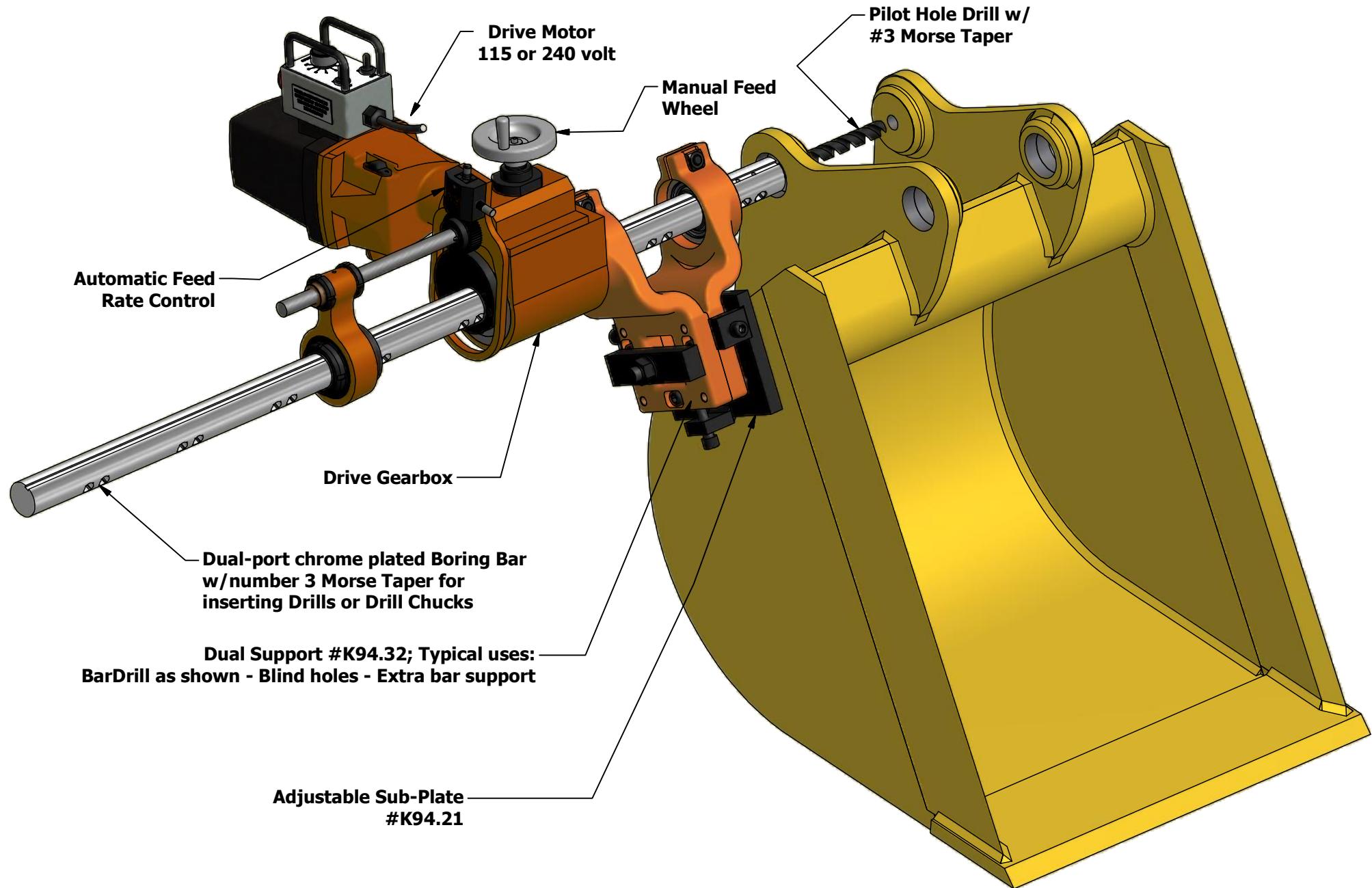
# Inverted Boring Bar Setup



# Bore Welder Center Support

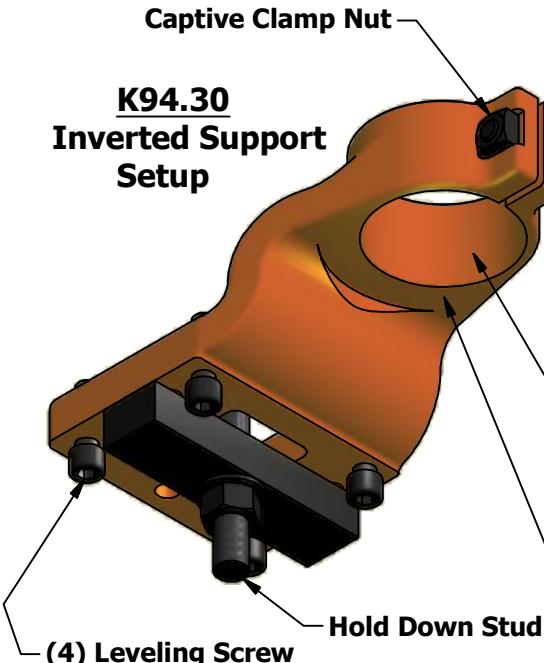
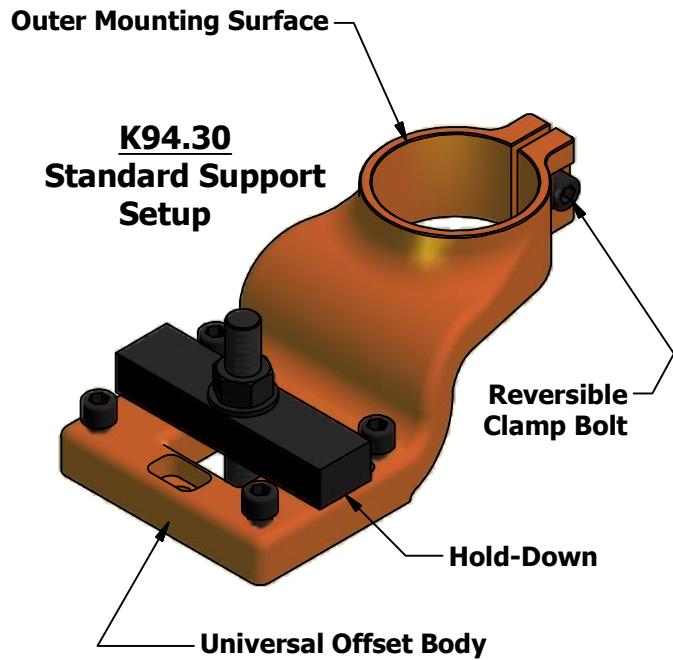


# BarDrill Setup



# Universal Support Kits K94.30 & K94.32

## Mount Configurations



### TYPICAL USES/FEATURES

#### Standard Single Support

- Most outboard locations where bore is near mounting surface
- Mount drive on either Outer or Inner Mounting Surface
- Supports Spherical Bearing

#### Inverted Single Support

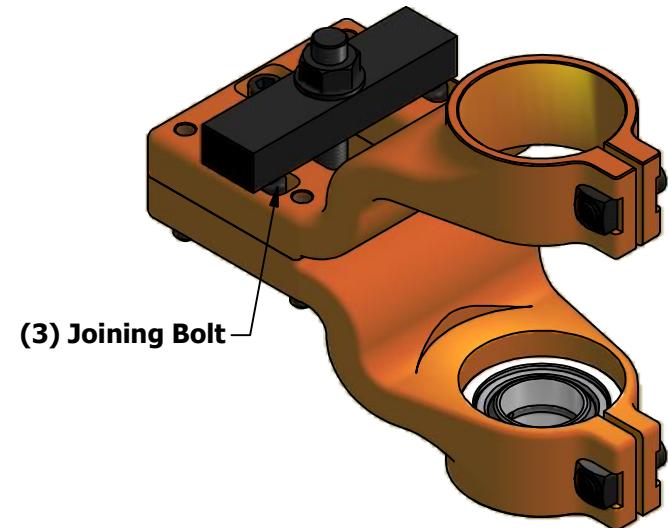
- Use when bore is inboard from mounting surface
- Mount drive on either Outer or Inner Mounting Surface
- Supports Spherical Bearing

#### Double Support

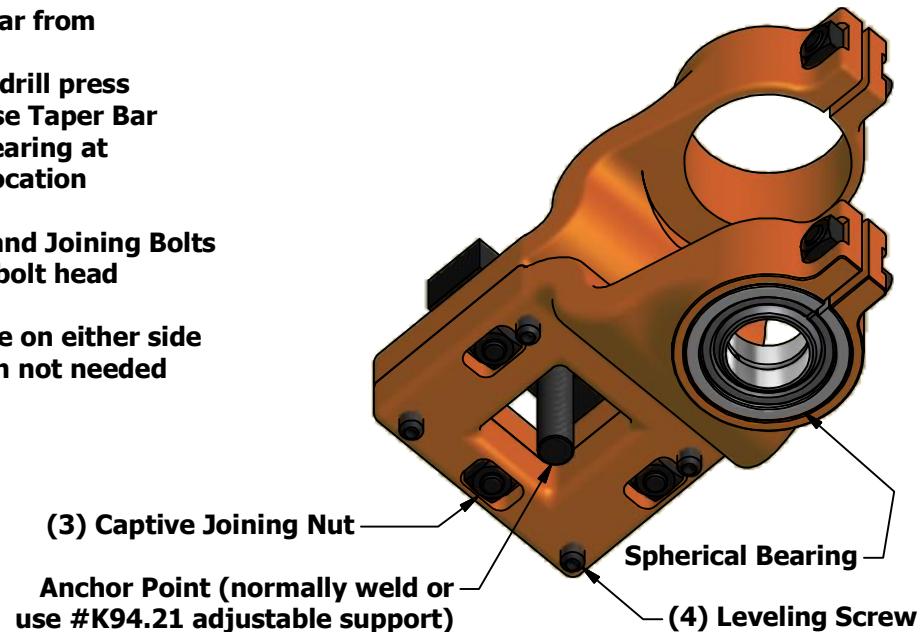
- Use when extra bar stiffness is needed, such as blind holes or bores located far from support
- Can be used as a drill press with special Morse Taper Bar
- Mount drive or bearing at either clamping location

#### Reversible Clamp and Joining Bolts

- Allows access to bolt head from either side
- Clamp Nut captive on either side so second wrench not needed

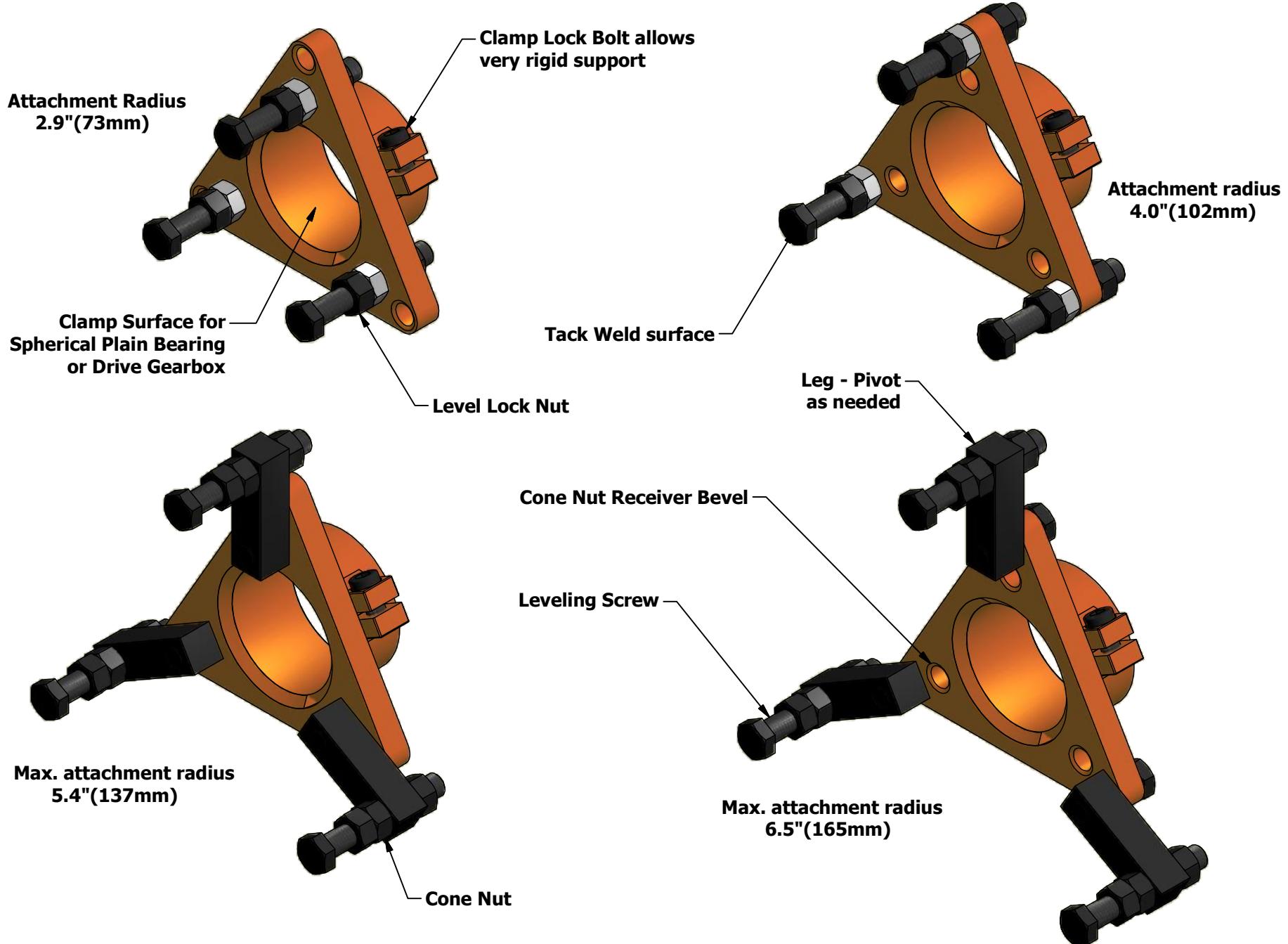


**K94.32**  
**Dual Support**  
**Setup**



# Spider Support K94.51

## Mount Configurations



# **BOA-408i series Automatic Bore Welding System**

**(popular choice for most heavy equipment bore repair jobs)**



The BOA-408i automatic bore welding system is designed for users who demand durability, ease of setup and precision without unnecessary complication.

Coupled with one of Bore Repair Systems' boring bars and new Center Support System, it will provide you with a means of repairing worn bores on all types of equipment in the fastest, most efficient way possible. Awarded numerous design patents, owners of our BOA systems quickly realize they made the right decision when choosing Bore Repair Systems' products. The BOA systems are the simplest to set up, the simplest to use and offer the highest levels of precision all at very reasonable prices.

The BOA-408i is conveniently offered in 5 packages, ranging from the basic BOA-408i S1 for internal bore buildup to the fully loaded BOA-408i S5 which features all the upgrades available including long stroke, auto-skip, face welding, outside diameter welding and even a BOA-M1 compact bore weld drive head and gun assembly.

The BOA-408i bore welder system is also offered in complete, turnkey kit form with integrated boring bar system. See our BRS2-BRS7 integrated bore welding and machining systems.

Already own a boring bar system but need to automate your bore welding process? The BOA-408i is for you too. Any BOA-408i system is available with boring bar interface kits to fit any brand boring bar system that you may now own.

Bore Repair Systems, Inc. offers many convenient purchase plans including rent-to-own and lease finance options. Contact us today at 603-835-2409 or visit our website at [www.borerepair.com](http://www.borerepair.com).



# **BOA-550HD series Automatic Bore Welding System**

**(popular choice for large diameter ID and OD welding & cladding jobs)**



The BOA-550HD automatic bore welding system is designed for users who demand durability, ease of setup and precision without unnecessary complication.

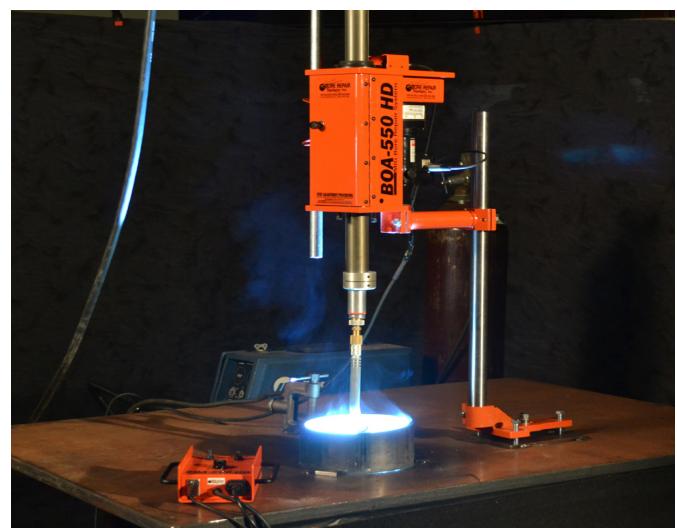
The patented BOA-550HD bore welder features a unique variable feed mechanical drive system that gives users the option of varying the distance between weld beads. Due to the design features of the feed system, and the fact that it does not require a second motor for axial feed, the machine is very simple to operate and does not require feed recalibrations. This also means that you do not have to worry about bead to bead spacing and possible lack of weld bead fusion to the base metal.

The BOA-550HD is designed to weld at amperages as high as 300, and a feed rate of up to 6.4mm (.25"). This allows vary high weld deposition rates and minimal cycle time. Also, the 410mm (16") stroke allows long duration welds without stopping.

The BOA-550HD is user friendly, simple to operate, extremely durable and is designed to be easily setup and operated.

Weighing just 14Kgs (30 Lbs) the BOA-550HD drive is easily and safely setup and handled by one person. Bores, faces and outside diameters up to 1.8m (72") can be welded with the BOA-550HD

Bore Repair Systems, Inc. offers many convenient purchase plans including rent-to-own and lease finance options. Contact us today at 603-835-2409 or visit our website at [www.borerepair.com](http://www.borerepair.com).



# **BOA-M1 Bore Welding System**

*(our most compact and affordable bore welding system)*



The BOA-M1 basic bore welding system is Bore Repair Systems' most compact and affordable bore welder. The welder drive and spindle assembly will fit nearly anywhere at just under 280mm (11.0") long.

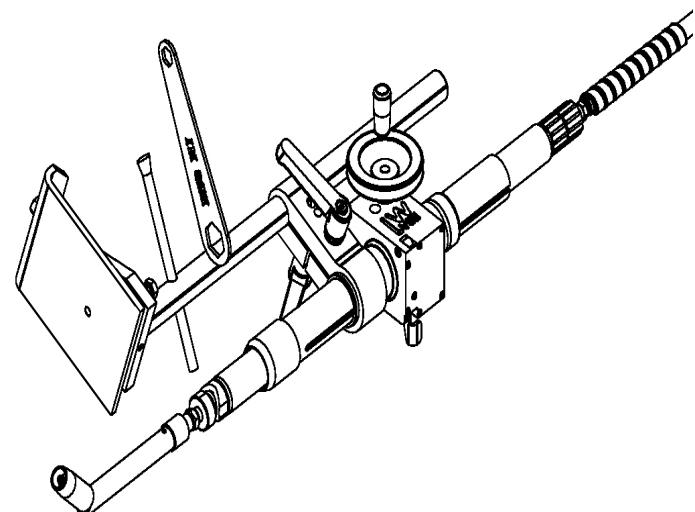
The BOA-M1 basic package is extremely versatile. With standard components, it can reach bores nearly 610mm (24") away from its' mount location, or bores over 1.2m (48") apart from one another when mounted between bores.

The BOA-M1 design is elegantly simple and extremely durable, very easy to set up and operate. It utilizes the same gun and conduit system as the BOA-408i so parts are interchangeable.

While the BOA-M1 bore welding system is a popular choice with our existing BOA-408i and BOA-550HD customers who are interested in a second bore welder that can fit in tight, restricted access bore repair jobs, it is also very popular with our new customers who are just starting out who need a bore welder that will give top quality professional results at the lowest possible entry price.

The BOA-M1 comes complete with a hand feed wheel and rotation speed timer with chart. This ensures smooth, even weld bead application every time. The BOA-M1 can also be easily driven automatically with a basic hand drill and our optional trigger lock kit.

Please call us today at 603-835-2409 or visit our website at [www.borerepair.com](http://www.borerepair.com). Several purchase and leasing options are available.



CE approved ✓

Pat. 6,137,076 Pat. 6,448,531 Pat. 6,737,608  
Pat. 6,284,995 Pat. 6,486,438

[Www.BoreRepair.com](http://Www.BoreRepair.com)



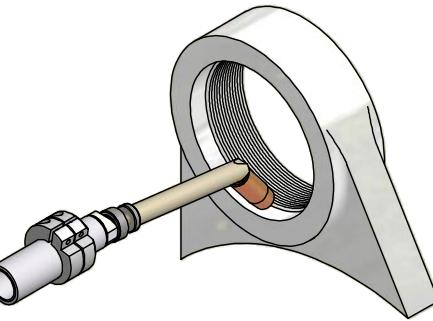
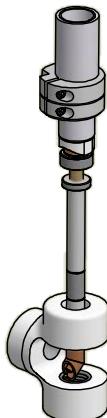
05/2012

Box 59

Tel: (603) 835-2409  
Fax: (603) 835-2609

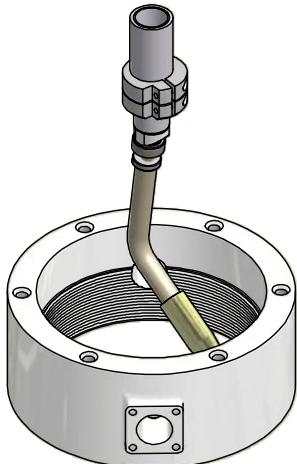
PO

**MICRO GUN (for 308i) - A138**  
**MICRO GUN (for 408i & M1) - A336**  
Diameter range: .8 to 2" (20 to 51mm)



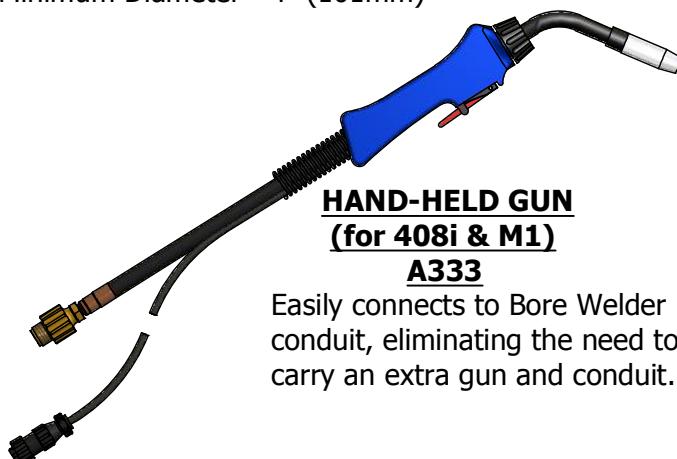
**STANDARD GUN (for 308i) - A113**  
**STANDARD GUN (for 408i & M1) - A313**  
**SHORT GUN (for 408i & M1) - A328**

Standard Guns Diameter range: 1.25 to 8" (32 to 203mm)  
Short Gun Diameter Range: 1.25 to 4" (32 to 101mm)  
Short Gun 3" (76mm) shorter than standard for use in tight locations.



**HI-AMP GUN (for 308i)**  
**A135**  
**HI-AMP GUN (for 408i, M1 & L34)**  
**A344**

Minimum Diameter - 4" (101mm)

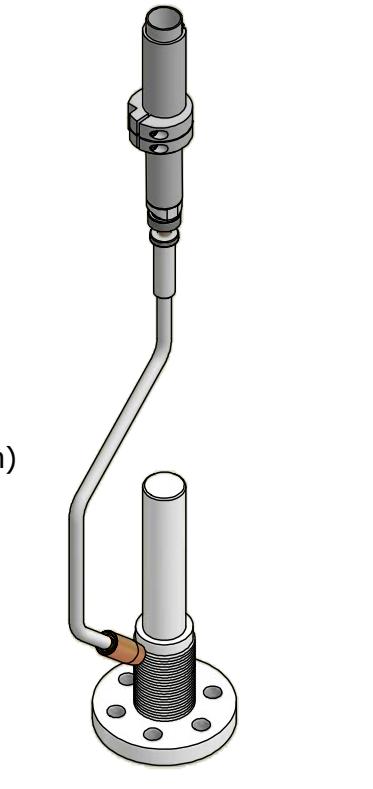


**HAND-HELD GUN**  
**(for 408i & M1)**  
**A333**

Easily connects to Bore Welder conduit, eliminating the need to carry an extra gun and conduit.

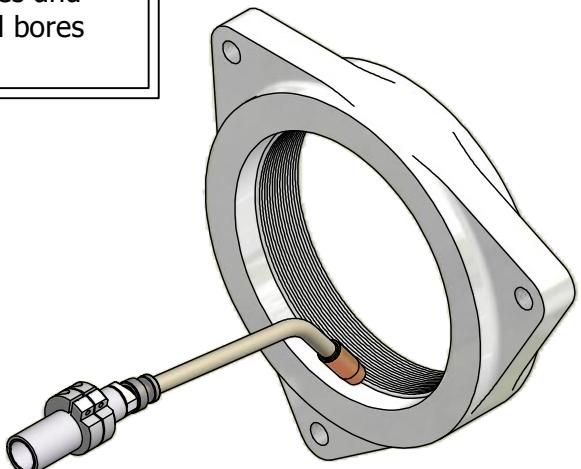
**FEATURES OF ALL OF OUR GUNS:**

- Quick install on BOA-308i, 408i, 450HD, M1 & L34 Bore Welders
- High electrical & thermal conductivity to help maintain an efficient and safe operating temperature
- Lightweight aluminum construction
- Weld in any position
- Covered by several USA Patents
- Electrical isolation of nozzles and use of standard tips for all bores larger than 1.2" (30mm)



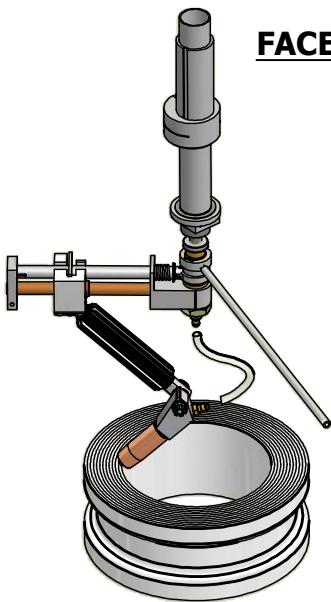
**OD GUN (for 308i)**  
**A114**  
**OD GUN (for 408i & M1)**  
**A317**

Diameter range: 1 to 12" (25 to 305mm)  
Custom sizes available



**LARGE DIAMETER GUN (for 308i)**  
**A115**  
**LARGE DIAMETER GUN (for 408i & M1)**  
**A310**

Diameter range: 8 to 15" (200 to 380mm)  
Diameter range with extenders: to 48" (1220mm)



### **FACE GUN - K13.10**

#### **FEATURES:**

- Lightweight
- Adjusts easily to the desired welding position
- Weld either inward or outward
- Weld faces up to 24" diameter
- Quick install on 308i, 408i & M1
- High electrical and thermal conductivity to maintain a low operating temperature
- Covered by USA Patent No. 6,486,438 et al

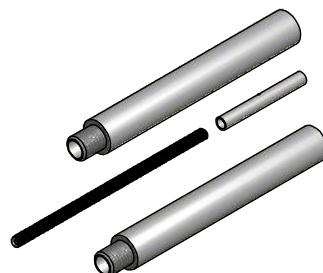
### **BEAM GUN - K13.11**



#### **FEATURES:**

- Aluminum tube construction makes the torch extremely rigid and durable yet lightweight
- Can weld both ID's and OD's (48" maximum)
- Quick install on 308i, 408i & M1
- High electrical and thermal conductivity to maintain a low operating temperature

### **GUN DIAMETER EXTENSIONS K13.12**



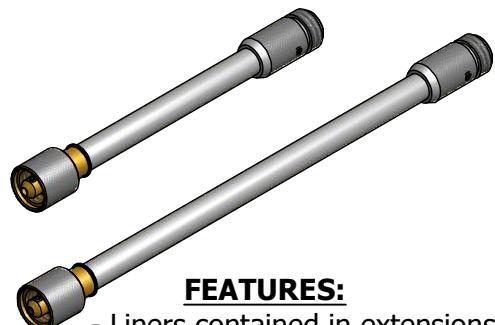
#### **FEATURES:**

- Comes with 2 extensions
- Each extension adds 5" (127mm) to the maximum diameter capability of the gun
- Gun liner removal not required
- Use with Large Diameter Gun

### **GUN REACH EXTENSIONS**

**A309 [6" (152mm)]**

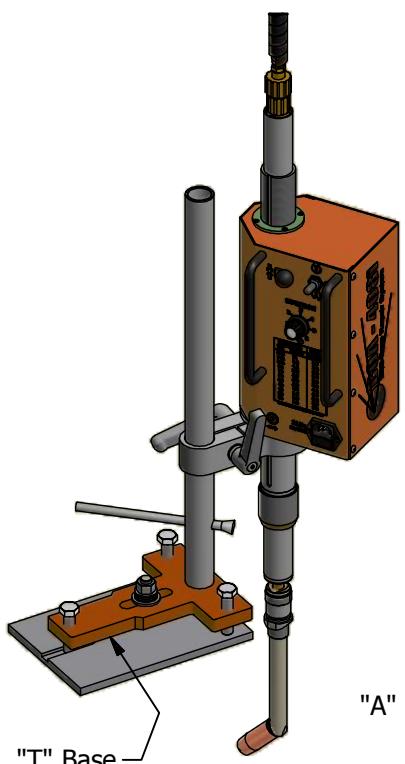
**A335 [10" (254mm)]**



#### **FEATURES:**

- Liners contained in extensions
- Can be used with all guns on 408i and M1 machines
- Quick connection and angular orientation with captive nuts
- Constructed with light, highly conductive aluminum with brass fittings

## BORE WELDER SUPPORT OPTIONS



**BOA-M1 - Hand Powered Version**

"A" Base

**FULLY ADJUSTABLE BASES**

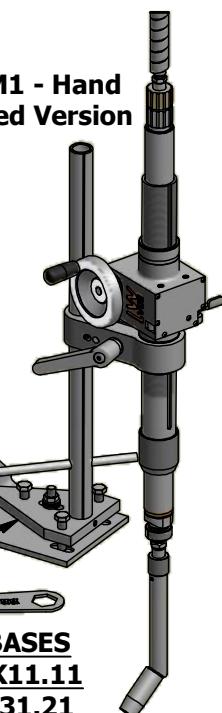
**"T" BASE (for 408i) - K11.11**

**"A" BASE (for M1) - K31.21**

Allows full adjustment to bore:

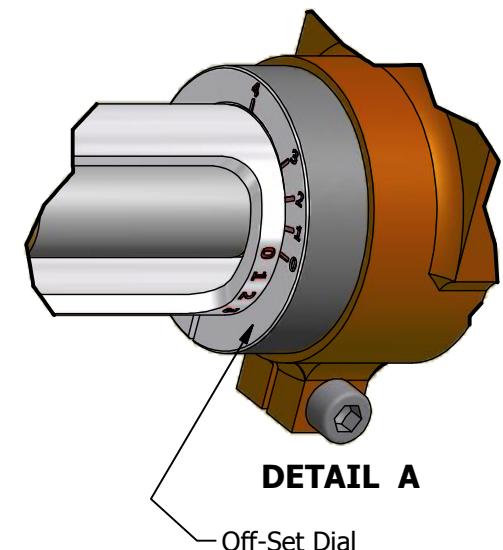
- Leveling
- Centering

Also repeatable angular positioning



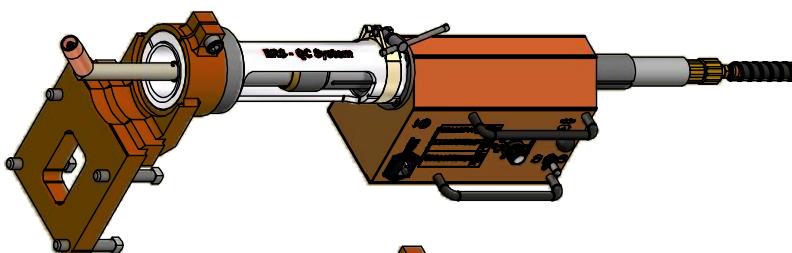
**UNIVERSAL HEX MOUNT  
for BOA-M1 - K31.10**

- Compact and easy to use
- Can be aligned directly from boring bars



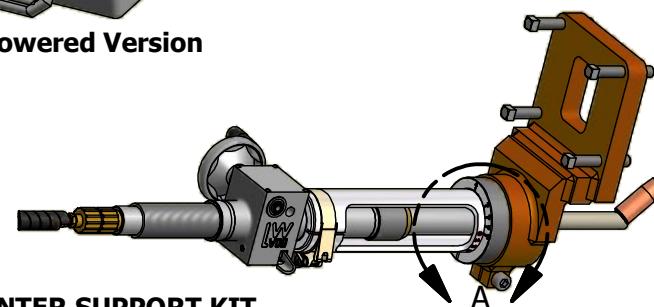
**DETAIL A**

Off-Set Dial



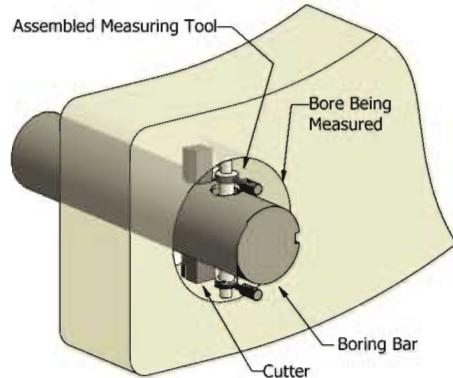
**QUICK CONNECT CENTER SUPPORT KIT  
for BOA-408I - K11.21 | for BOA-M1 - K31.11**

- Set-up quickly with no guesswork
- Centers directly from boring bar bearing mounts
- Adjustments made directly using off-set dial



**Quick Connect Center Support Kit - Exploded View**

## **BORE MEASURING KIT K92.10**

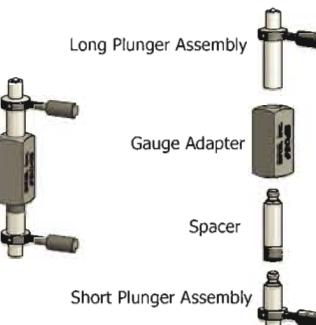


### **Easy to Use:**

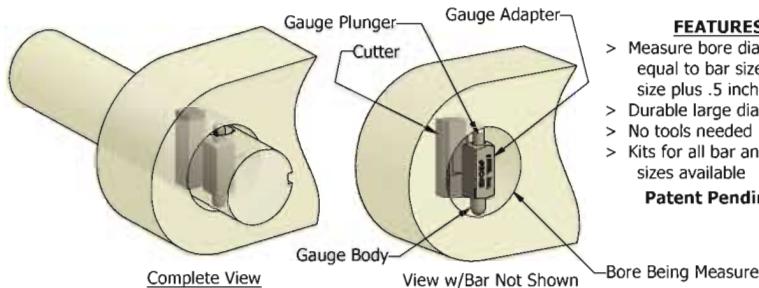
1. Insert measuring tool through a tool hole in the boring bar
2. Extend the tool into the bore
3. Snap open the measuring tool
4. Retract the bar
5. Measure the tool length

### **FEATURES:**

- > Kit Diameter Range - 1.7 to 14 inches (42 to 355mm)
- > Additional spacers available for larger diameters
- > Works in 3/8 and 1/2 inch, and 10, 12 16mm tool holes
- > Durable large diameter plungers
- > Stainless steel construction
- > No tools needed for most bores
- > Comes in durable case with special nesting and adapters for two tooling sizes



## **TIGHT BORE MEASURING KIT K92.20**



### **FEATURES:**

- > Measure bore diameters equal to bar size, to bar size plus .5 inches (12mm)
- > Durable large diameter plungers
- > No tools needed
- > Kits for all bar and tool sizes available

**Patent Pending**

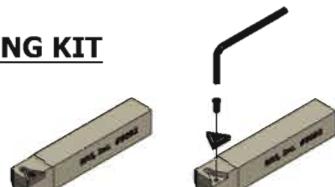
Complete View

View w/Bar Not Shown

## **CARBIDE TOOLING KIT**

### **FEATURES:**

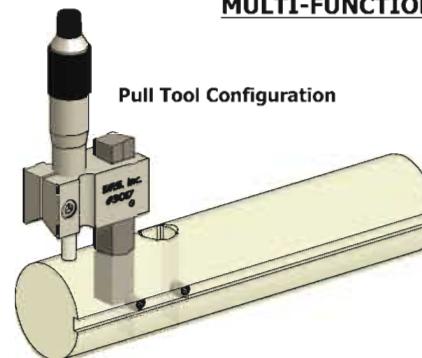
- > Special low-profile design works with Bore Repair K93 tool adjuster
- > Available in 3/8" and 1/2" square
- > A variety of carbide grades are available allowing various materials to be machined



3/8" Tool - K91.10 | 1/2" Tool - K91.11

Carbide Bit, Holder and Tool  
(Kit includes 2 Bits, Holder and Tool)

## **MULTI-FUNCTION TOOL ADJUSTER**

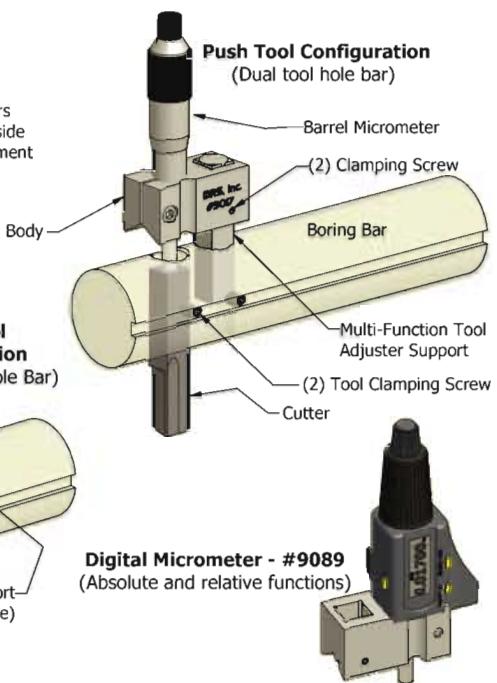


### **Pull Tool Configuration**

### **Available for the following Tooling Sizes:**

1. 1/4" square > K93.10 (Body Only #A903)
2. 3/8" square > K93.11 (Body Only #A904)
3. 1/2" square > K93.12 (Body Only #A905)
4. 10mm square > K93.13 (Body Only #A906)
5. 12mm square > K93.14 (Body Only #A907)
6. 16mm round > K93.15 (Body Only #A908)
7. 3/8" & 1/2" sq > K93.16

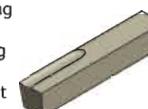
All kits include a Tool Adjuster Body, a Barrel Micrometer, a Multi-Function Tool Adjuster Support, and a Carrying Case and Tools



## **PRE-SHARPENED HIGH-SPEED STEEL BITS**

### **FEATURES**

- > Wide cutting edge allows both ID and spot facing for easy face touch-up
- > Design of the grind offers easy sharpening using a standard bench grinder
- > Special grind for longer edge life and cleaner cut

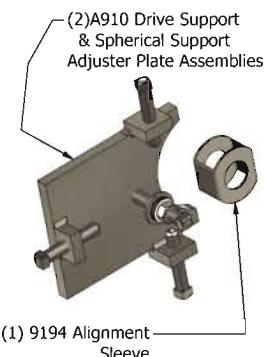


3/8" Square Bit - #9088 | 1/2" Square Bit - #9087

**BORE REPAIR  
SYSTEMS, INC.**  
**[www.borerepair.com](http://www.borerepair.com)**  
**(800)650-1005**  
**(603)835-2409**

## **BORING BAR SUPPORT KIT (K94.20)\***

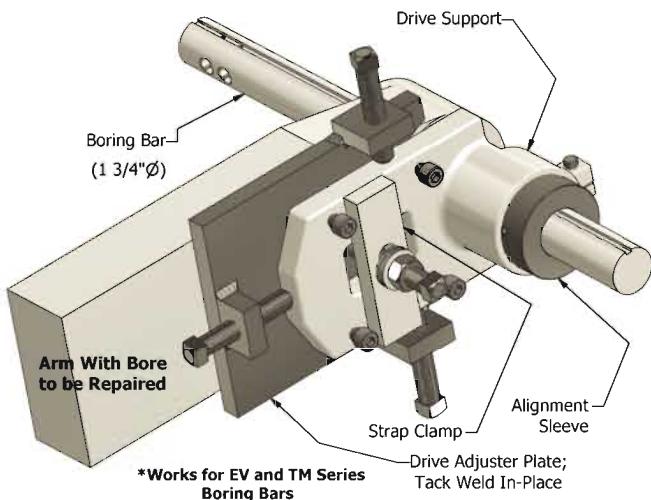
### **KIT INCLUDES:**



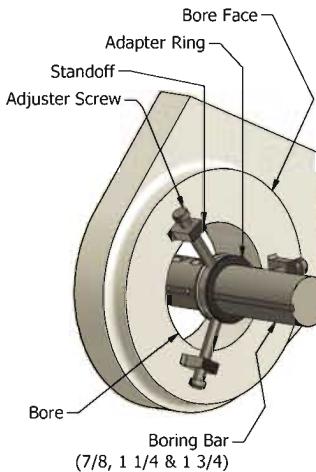
### **Set-Up Steps:**

1. Tack weld or clamp the Adjuster Plate Assemblies adjacent to the bores to be repaired. (The plates should be approximately perpendicular to the bore axis, and with the clamping bolt 5" from the bore centerline.)
2. Attach the Drive Support as shown, and the Spherical Support (not shown) to the Adjuster Plate.
3. Adjust as necessary using the "jack" bolts to achieve the desired bore alignment.
4. Insert the Alignment Sleeve into the Drive Support as shown.
5. Slide the Boring Bar through the Alignment Sleeve and the Spherical Support.
6. Tighten the Strap Clamp.

### **Kit Assembled on Drive-End**



## **BORING BAR ALIGNMENT KIT**

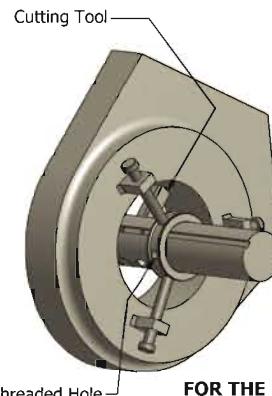


### **Set-Up Step #1:**

1. Assemble 2 sets of Rings, Standoffs, and Screws as shown.
2. With the Rings on the Boring Bar, tack weld Standoffs to the Bore Faces so that the Rings are approximately centered.

### **FEATURES**

- Low Profile
- Easy Alignment to Other Bores
- Allows Precision Alignment
- Great for Alignment to Out-of-Round Bores



### **Set-Up Step #2:**

1. Retract the Adjuster Screws from the Threaded Holes in the Adapter Ring and rotate the Adapter Ring until the Adjuster Screws are no longer aligned with the Threaded Holes.
2. Align the Boring Bar as required using the Adjuster Screws. (If the Bore is round, it is sometimes helpful to insert a Cutting Tool and measure the distance from the Cutting Tool to the Bore in order to assure proper alignment.)

### **FOR THE FOLLOWING SIZE BARS**

1 1/4" Bars	1 3/8" to 5 1/2" Bores	K94.10
1 3/4" Bars	1 7/8" to 10" Bores	K94.11
1 1/4" & 1 3/4"	1" to 10" Bores	K94.12
2.0" Bars	2 1/8" to 10" Bores	K94.13
2 1/4" Bars	2 3/8" to 10" Bores	K94.14

## **ID GROOVE CUTTER**

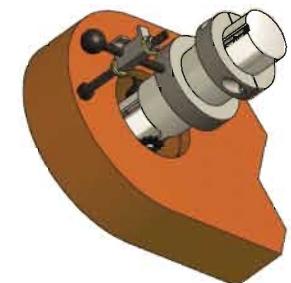


### **FEATURES**

- Cutter fits in 1/2" tool holes in boring bars
- High speed steel cutting bits
- Cuts grooves in bores from 2.5" to 6" (64 to 152mm)
- Very compact - can be used in confined spaces

### **FOR THE FOLLOWING BAR SIZES**

1 1/2" Bars	K96.10
1 3/4" Bars	K96.11
2" Bars	K96.12
2 1/4" Bars	K96.13



**BORE REPAIR SYSTEMS, INC.**  
web: [borerepair.com](http://borerepair.com)

**(800)650-1005 & (603)835-2409**

# ONE-STEP INTEGRATED COMPLETE BORE REPAIR SYSTEMS

Model: BRS2, BRS3 and BRS4—(Typically used for heavy equipment bore repair)



**BOA408i S1  
Borewelder**



**EV2  
Boring bar**

The Bore Repair Systems, Inc. BRS2, BRS3 and BRS4 bore repair packages have been our most popular selling packages. The bore welder and boring bar feature the popular, mount anywhere pass-through drive systems. On bores where there may be restricted access, or bores that are spaced far apart, the pass-through drive design gives you the flexibility to mount where it makes the most sense, such as between the bores. On jobs such as payloader lift arm bores, the BOA-408i can be center-mounted and can weld out either end of the machine with one simple operation, without ever losing system center...this is unique to the BOA-408i design. On blind bores, our systems do not require special cumbersome remote mounting kits or various length bars because with our pass-through design the excess bar simply comes out of the back end of the machine. The BRS packages share one mount for boring and welding which allows fast setup and rapid transitions from boring to the welding process.

## **MODEL: BRS2** Bore welding & machining package—for 1.8" to 10.0" dia repairs

### Package (shown above) Includes:

- Bore welding head, 110v or 220v drive with variable feed direction and RPM
- Extendable, reversible welding shaft with 90" total extended reach from bore to bore (expandable)
- 10' 150amp welding conduit with universal end (hi-amp upgrades are available)
- Aluminum diamond-plate custom storage cases
- Spare nozzle, tip and diffuser assortment
- Arc-resistant heatsink style adjustable welding head which can weld bores from 1.25" to 11.0" dia
- Micro welding head for welding bores down to .8" dia
- Setup manuals & dvd
- Remote weld trigger for partial bore welding or skipping over no-weld areas
- Fully 360 degree adjustable mounting system enabling control placement where it is most convenient
- Boring bar drive, 110v or 220v drive with variable feed direction and RPM
- 72" long x 1.75" dia. Bar with dual 1/2" tool ports—enabling easy bore measurements w/out tool removal
- Centering kit (solid steel cones) with unique one-person centering cone spanner tightening system
- Two auxiliary spherical self-aligning bar support bearings and one primary bar/machine support (adjustable)
- Sharpened 1/2" square high-speed tool (carbide optional)
- Bore welder to boring bar interface package enables bore welder to mount directly to boring bar bearings or support
- Setup sleeve for easy machine support setup
- Tool kit
- Boring bar tool extender for sturdy tool holding when machining larger bores
- Corrosion-resistant materials used throughout both boring and welding system for years of shop and field reliability

## **MODEL: BRS3** Bore welding & machining package—for 1.4" to 10.0" dia repairs

### Package Includes all items above plus:

#1 Seller

- 72" long x 1.25" dia bar with dual 3/8" tool ports + tooling
- Centering cone & bushing kit for 1.75" to 1.25" conversion

## **MODEL: BRS4** Bore welding & machining package—for 1.0" to 10.0" dia repairs

### Package Includes all items above plus:

- 48" long x .875" dia bar with 1/4" tool ports + tooling
- Centering cone & bushing kit for 1.75" to .875" conversion

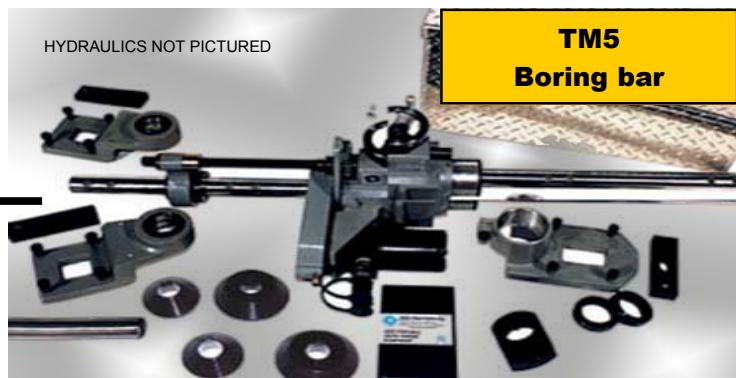
**ADD: Accessory kit #KBCC to maximize the versatility of these packages. It contains all of the popular BRS options.**

# ONE-STEP INTEGRATED COMPLETE BORE REPAIR SYSTEMS

Model: BRS5—(Typically used for heavy equipment bore repair)



**BOA408i S1  
Borewelder**



**TM5  
Boring bar**

The Bore Repair Systems, Inc. BRS5 Boring bar & welder package is a popular midsize bore repair system. The bore welder and boring bar feature the popular, mount anywhere pass-through drive systems. On bores where there may be restricted access, or bores that are spaced far apart, the pass-through drive design gives you the flexibility to mount where it makes the most sense, such as between the bores. On jobs such as payloader lift arm bores, the BOA-408i can be center-mounted and can weld out either end of the machine with one simple operation, without ever losing system center...this is unique to the BOA-408i design. On blind bores, our systems do not require special cumbersome remote mounting kits or various length bars because with our pass-through design the excess bar simply comes out of the back end of the machine. The BRS packages share one mount for boring and welding which allows fast setup and rapid transitions from boring to the welding process.

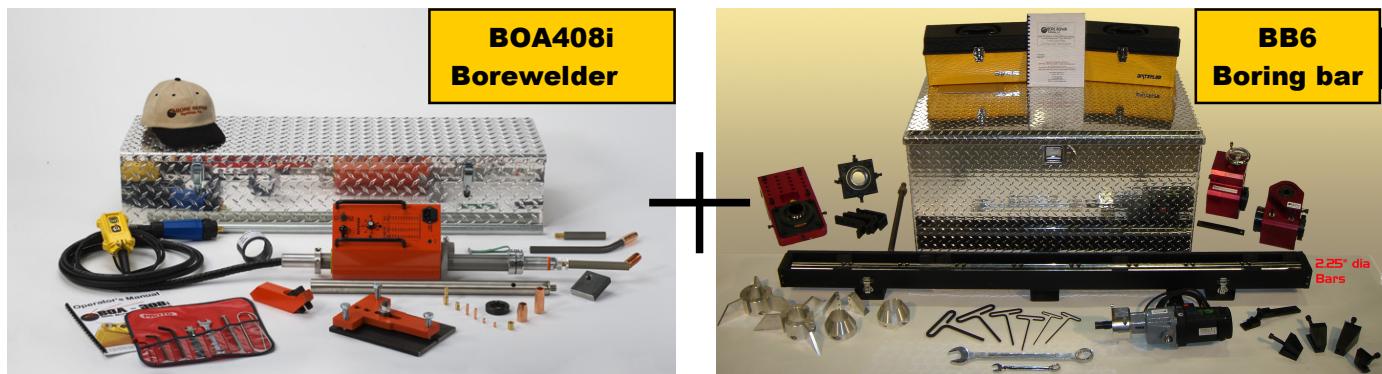
## **MODEL: BRS5** Bore welding & machining package— for 24-305mm (1-12") diameter bore repair Package (shown above) Includes:

- Bore welding head, 110v or 220v drive with variable feed rotation speed, reversible rotation & feed direction
- Extendable, reversible welding shaft with 90" total extended reach from bore to bore (expandable)
- 10' 150amp welding conduit with universal end (hi-amp upgrades are available)
- Aluminum diamond-plate custom storage cases
- Spare nozzle, tip and diffuser assortment
- Arc-resistant heatsink style adjustable welding head which can weld bores from 1.25" to 11.0" dia
- Micro welding head for welding bores down to .8" dia
- Setup manuals & dvd
- Remote weld trigger for partial bore welding or skipping over no-weld areas
- Fully 360 degree adjustable mounting system enabling control placement where it is most convenient
- 72" long x 1.25" dia bar with dual 3/8" tool ports + tooling
- **48" long x .875" dia bar with 1/4" tool ports + tooling**
- Boring bar drive, 110v or 220v drive with variable feed direction (electric drive hydraulic pump)
- 72" long x 1.75" dia. Bar with dual 1/2" tool ports—enabling easy bore measurements w/out tool removal
- Centering kit (solid steel cones) with unique one-person centering cone spanner tightening system
- Two auxiliary spherical self-aligning bar support bearings and one primary bar/machine support (adjustable)
- Sharpened 1/2" square high-speed tool (carbide optional)
- Bore welder to boring bar interface package enables bore welder to mount directly to boring bar bearings or support
- Setup sleeve for easy machine support setup
- Tool kit
- Boring bar tool extender for sturdy tool holding when machining larger bores
- Corrosion-resistant materials used throughout both boring and welding system for years of shop and field reliability
- Centering cone & bushing kit for 1.75" to 1.25" conversion
- **Centering cone & bushing kit for 1.75" to .875" conversion**

**ADD: Accessory kit #KBCC to maximize the versatility of these packages. It contains all of the popular BRS options.**

# ONE-STEP INTEGRATED COMPLETE BORE REPAIR SYSTEM

Model BRS6—(Popular for large diameter heavy equipment bore repair)



The Bore Repair Systems, Inc. BRS6 bore repair packages are selected by customers who have large diameters to repair, generally from 2.5" up to as large as 24". The bore welder and boring bar feature the popular, mount anywhere pass-through drive systems. On bores where there may be restricted access, or bores that are spaced far apart, the pass-through drive design gives you the flexibility to mount where it makes the most sense, such as between the bores. On jobs such as payloader lift arm bores, the BOA-408i can be center-mounted and can weld out either end of the machine with one simple operation, without ever losing system center...this is unique to the BOA-408i design. On blind bores, our systems do not require special cumbersome remote mounting kits or various length bars because with our pass-through design the excess bar simply comes out of the back end of the machine. The BRS packages share one mount for boring and welding which allows fast setup and rapid transitions from boring to the welding process.

## MODEL: BRS6      Bore welding / machining package— for 2.5" to 18.0" dia repairs

### Package (shown above) Includes:

- Bore welding head, 110v or 220v drive with variable feed direction and RPM
- Extendable, reversible welding shaft with 90" total extended reach from bore to bore (expandable)
- 10' 150amp welding conduit with universal end (hi-amp upgrades are available)
- Aluminum diamond-plate custom storage cases
- Spare nozzle, tip and diffuser assortment
- Arc-resistant heatsink style adjustable welding heads & extensions which can weld bores from 1.25" to 21.0" dia
- Micro welding head for welding bores down to .8" dia
- Setup manuals & dvd
- Remote weld trigger for partial bore welding or skipping over no-weld areas
- Fully 360 degree adjustable mounting system enabling control placement where it is most convenient
- Boring bar drive, 110v or 220v drive with variable feed direction RPM and variable feed rate (hydraulic or air power options also available)
- 72" long x 2.25" dia. Bar with dual 1/2" tool ports—enabling easy bore measurements w/out tool removal
- Centering kit with unique aluminum split finned feature enabling installation and removal in tight spaces
- Two auxiliary spherical self-aligning bar support bearings each of which can also support the feed unit
- Sharpened 1/2" square high-speed tool (carbide optional)
- Bore welder to boring bar interface package enables bore welder to mount directly to boring bar bearings or support
- Modular axial feed box can be mounted independently of the rotational head if desired or required.
- Tool kit
- Boring bar tool extender kit for sturdy tool holding when machining larger bores
- Corrosion-resistant materials used throughout both boring and welding system for years of shop and field reliability

- This system may be upgraded to machine and weld larger bores. The BOA-408i can be equipped to weld up to 48" diameter, and the BB6 boring system can be equipped to bore up to 30" diameter. Face welding, machining and snap-ring cutting capabilities may also be added to the BRS 6 package.
- A wide selection of various length boring bars is available for the BB6 boring system. The BB6 boring system also may be equipped with the small bore package, which enables it to machine bores as small as 1.5" diameter.

# ONE-STEP INTEGRATED COMPLETE BORE REPAIR SYSTEMS

Model: BRS7—(Typically used for large, stationary equipment bore repair)



The Bore Repair Systems, Inc. AM7 bore repair package will repair bores from 35-610mm diam (1.5-24") The bore welder and boring bar features the popular, mount anywhere pass-through drive systems. On bores where there may be restricted access, or bores that are spaced far apart, the pass-through drive design gives you the flexibility to mount where it makes the most sense, such as between the bores. On jobs such as payloader lift arm bores, the BOA-408i can be center-mounted and can weld out either end of the machine with one simple operation, without ever losing system center...this is unique to the BOA-408i design. On blind bores, our systems do not require special cumbersome remote mounting kits or various length bars because with our pass-through design the excess bar simply comes out of the back end of the machine. The BRS packages share one mount for boring and welding which allows fast setup and rapid transitions from boring to the welding process.

**MODEL: BRS7**

**Bore welding & machining package— for 35-610mm (1.5-24") diameter repairs**

Package (shown above) Includes:

- Keyed, modular bar drive
- Bar axial feed arm w/wear compensation
- 120v / 240v hydraulic pump
- (2) spherical bar supports
- (2) adjustable bar / gearbox supports
- Centering cone pack with compressor sleeve
- Steel support brackets
- Remote control pendant
- (2) 1.8m (6') & (2) 2.4m (8') boring bars
- 1/2" pre-sharpened tool bit with facing grind
- Setup and users manual with video CD
- Custom carrying/storage case
- 1.8m (6') 32mm (1.25") dia. chrome bore bar
- 3/8" pre-sharpened tool bit with facing grind
- Centering cone pack for 32mm (1.25") bar
- 32mm Reducer kit for bearings & drive
- Matching range BOA-408i bore welder
- BOA-408i to AM7 Center support interface package

**NOTE: Popular options designed specifically for this system include the #K94.13 low profile alignment package, the carbide tooling option #K91.11, the thru bar bore measuring package # K92.10 and the digital tool bit adjuster #K93.12**

# BOA-408i Bore welder packages

6/2013

BOA-408i S5 System	BOA-408i S4 System	BOA-408i S3 System
<b>Standard Capabilities:</b> I.D. Weld range: 20mm-1.2m (.8-48") O.D. Weld range: 20mm-1.02m (.8-40") Face Welding: 20-610mm (.8-24") diameter Stroke: 318mm (12.5") Pass-thru & telescopic Long-duration welding at high amperage Auto-weld skip for partial bore welding Can weld in compact spaces (use BOA-M1 drive) Can weld two bores at once (2 feeders needed)	<b>Standard Capabilities:</b> I.D. Weld range: 20mm-914mm (.8-48") O.D. Weld range: 20mm-914mm (.8-36") Face Welding: 20-610mm (.8-24") diameter Stroke: 318mm (12.5") Long-duration welding High amperage operation Pass-through gun drive with tool-less telescoping feature and full, tool-less reversibility	<b>Standard Capabilities:</b> I.D. Weld range: 20mm-914mm (.8-31") O.D. Weld range: 20mm-305mm (.8-12") Face Welding: 20-610mm (.8-24") diameter Stroke: 318mm (12.5") Long-duration welding High amperage operation Pass-through gun drive with tool-less telescoping feature and full, tool-less reversibility
<b>Standard equipment:</b>	<b>Standard equipment:</b>	<b>Standard equipment:</b>
Welding gun drive 120v/240v AC automatic	Welding gun drive 120v/240v AC automatic	Welding gun drive 120v/240v AC automatic
Long stroke telescopic ball spindle	Long stroke telescopic ball spindle	Long stroke telescopic ball spindle
Standard weld gun assembly	Standard weld gun assembly	Standard weld gun assembly
Heavy duty conduit with remote weld switch	Heavy duty conduit with remote weld switch	Standard conduit with remote weld switch
Standard gun extension tube assembly	Standard gun extension tube assembly	Standard gun extension tube assembly
Micro weld gun assembly	Micro weld gun assembly	Micro weld gun assembly
Weld gun extensions, 152 & 254mm (6 & 10")	Weld gun extensions, 152 & 254mm (6 & 10")	Weld gun extensions, 152 & 254mm (6 & 10")
Bore welder support tube	Bore welder support tube	Bore welder support tube
Radial support arm	Radial support arm	Radial support arm
Tool kit	Tool kit	Tool kit
Deluxe consumables kit	Deluxe consumables kit	Standard consumables kit
Diamond plate carry case	Diamond plate carry case	Diamond plate carry case
Users and setup manual	Users and setup manual	Users and setup manual
Outside diameter welding gun	Outside diameter welding gun	Outside diameter welding gun
Adjustable "T" base and tack plate kit	Adjustable "T" base and tack plate kit	Adjustable "T" base and tack plate kit
Large diameter welding gun	Large diameter welding gun	Large diameter welding gun
Large diameter welding gun extenders (2)	Large diameter welding gun extenders (2)	Large diameter welding gun extenders (2)
Radial extenders for large diameter reach (3)	Radial extenders for large diameter reach (2)	Radial extenders for large diameter reach (2)
Face welding gun kit	Face welding gun kit	Face welding gun kit
Handheld welding gun with quick connect	Handheld welding gun with quick connect	Handheld welding gun with quick connect
Beam gun kit for large ID and OD welding	Beam gun kit for large ID and OD welding	
Low-speed kit for precision control in large bores	Low-speed kit for precision control in large bores	
BOA-M1 compact bore welder		
Hex BOA-M1 borewelder support kit		
Compact gun extension tube assembly		
Standard conduit assembly		
Short telescopic ball spindle		
Stub weld gun assembly		
Auto-Skip feature installed for partial bore weld		
<b>Order #K01.50</b>	<b>Order #K01.40</b>	<b>Order #K01.30</b>

**NOTE:**

All BOA-408i bore welder systems feature the pass-through drive system design. This enables simple bore-to-bore transitions by simply telescoping or retracting the bore welder gun extension assembly. The BOA-408i may also be mounted between a set of bores, and can weld our either end of the bore welder. This is a very handy feature for working on bores such as those found on the front of a pay loader because by center mounting the BOA-408i drive, only one setup is required to weld both left and right side bores. Diameter adjustment is a snap with the BOA torch pivot mechanism, also included with all BOA-408i bore welder systems.

All BOA-408i bore welder systems may be equipped with the bore welder to boring bar interface for true plug and play simplicity. Once the Bore Repair Systems, Inc. boring bar is set up, the bore welder simply plugs in to the boring bar support.

All BOA-408i bore welder systems feature self-lubricating, maintenance-free , self lubricating spindle bearings, clutched chain drive and simple, durable on-board control eliminating the need for control cables or control box.



# BOA-408i Bore welder packages

6/2013

**NOTE:**

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All BOA-408i bore welder systems feature self-lubricating, maintenance-free , self lubricating spindle bearings, clutched chain drive and simple, durable on-board control eliminating the need for control cables or control box.

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438

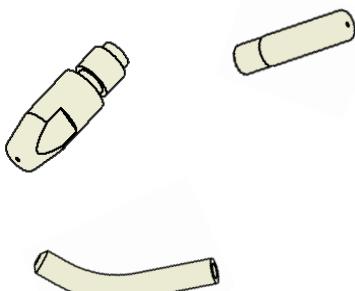


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# Consumable parts (welding)

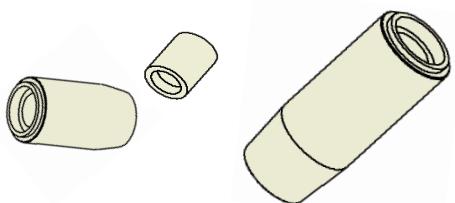
6/2013

## Welding Tips



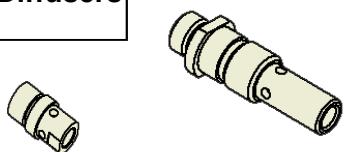
Stub tip, .8mm (.030")	#1058
Stub tip, .9mm (.035")	#1059
Stub tip, 1.2mm (.045")	#1060
Standard tip, .8mm (.030")	#1061
Standard tip, .9mm (.035")	#1062
Standard tip, 1.2mm (.045")	#1063
Hi-amp tip, .9mm (.035")	#2040
Hi-amp tip, 1.2mm (.045")	#2041
Hi-amp tip, 1.3mm (.052")	#2042
Micro-gun tip, .8mm (.030")	#1255

## Welding Nozzles



Mini nozzle, insul. ceramic 32-50mm (1.25-2.00")	#1092C
Mini nozzle, brass 32-50mm (1.25-2.00")	#1092B
Stub nozzle (use for dia. to 50mm (2.00"))	#1066
Standard nozzle (use for dia. Over 127mm (5.0"))	#1067
Hi-amp nozzle (for use on beam & hi-amp gun)	#2067
Hi-amp stub nozzle (use on beam & hi-amp gun)	#2074
Micro-gun nozzle body	#1258
Hand-held gun nozzle	#1308

## Welding Diffusers



Mini diffuser	#1093
Standard diffuser	#1057
Hi-amp diffuser	#2068
Hi-amp stub diffuser	#2075
Hi-amp diffuser to gun adapter, 9-12mm	#1251
Hi-amp diffuser to gun adapter	#2080

## Liner & Conduits



Liner, conduit replacement	#1038
Liner (1.5m (5') section, trim to fit)	#1039
Conduit assembly, standard duty QC	#A315
Conduit assembly, heavy duty QC	#A337
Conduit assembly, extra heavy duty QC	#A338

## Welding wire



Large cast bore welder wire, .8mm (.030")	#1103
Large cast bore welder wire, .9mm (.035")	#1202
(superior weld bead tracking with this wire)	

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438  
Other patents pending

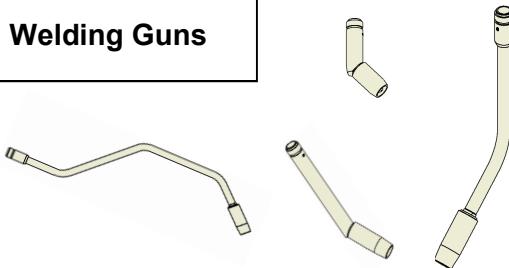


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# Borewelder parts & acc.

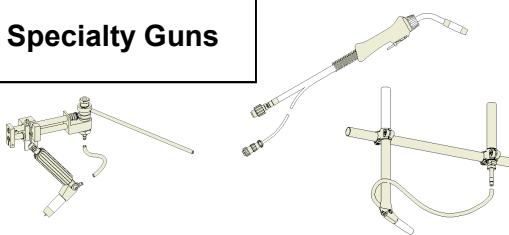
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## Welding Guns



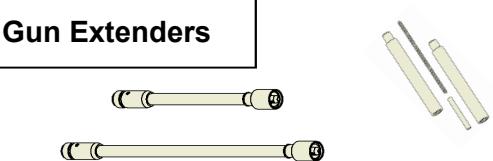
Gun, short QC	#A328
Gun, standard QC	#A313
Gun, micro QC for ID's 20-50mm (.8"-2.0")	#A336
Gun, large dia. for ID's 200-380mm (8"-15") QC	#A310
Gun, outside dia. for 25mm-305mm (1"-12") QC	#A317
Hi-amp gun	#A209

## Specialty Guns



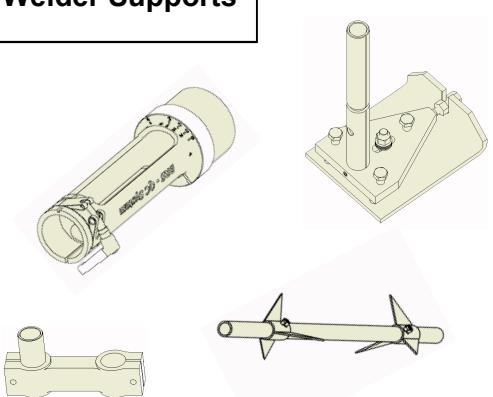
Extra heavy duty gun, ultra hi-amp	#A404
Heavy duty gun extender	#K23.10
Face welding gun kit	#K13.10
Beam gun kit (adjustable ID and OD welding)	#K13.11
Hand held gun assembly QC	#A333

## Gun Extenders



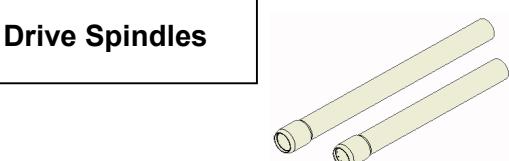
Gun extension assembly 150mm (6")	#A309
Gun extension assembly 250mm (10")	#A335
Gun diameter extension kit (125mm (5") x2	#K13.12

## Welder Supports



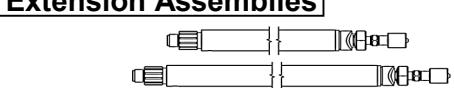
"T" Base with tack plate	#K11.11
"A" Base with tack plate and tool (compact)	#K31.21
Universal Hex mount (use with BOA-M1 only)	#A329
Radial support, BOA-M1	#A308
Support tube (BOA-M1)	#3099
Center support kit (BOA-M1)	#K31.11
Center support kit (BOA-408i)	#K11.21
Radial support extension 102mm (4")	#A118
Radial support extension 204mm (8")	#A119
Centering tube & cone kit (45-160mm(1.8-6.4"))	#K11.12

## Drive Spindles



Spindle assembly, 250mm (10") (BOA-M1 only)	#A320
Spindle assembly, 356mm (14")	#A325
Spindle assembly, 457mm (18")	#A319
Spindle assembly, 610mm (24")	#A326

## Telescoping weld gun Extension Assemblies



Telescoping tube assembly, 305mm (12")	#A339
Telescoping tube assembly, 483mm (19")	#A316
Telescoping tube assembly, 610mm (24")	#A340
Telescoping tube assembly, 915mm (36")	#A341

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438  
Other patents pending

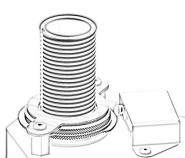
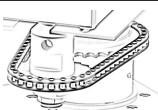


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Fax: 603-835-2609

# Misc. bore repair parts

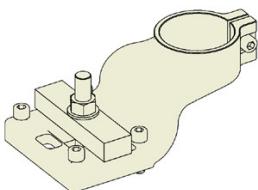
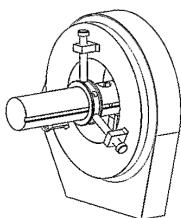
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## BOA 408i upgrades



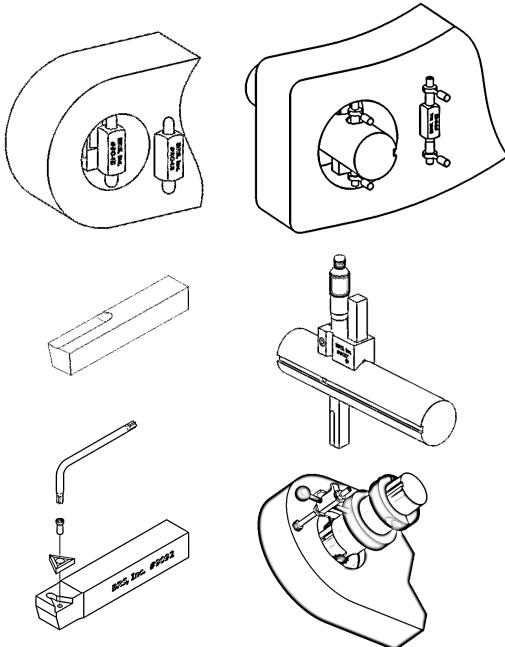
Low-speed gearset kit	#K12.14
Standard-speed gearset kit	#K12.13
Std/Low-speed gearset kit	#K12.12
Auto-skip upgrade	#A129

## Boring bar supports, centering,etc.



Boring bar base-plate support kit, adjustable	#K94.21
Bearing spherical bearing insert assembly, 1.75"	#A922
Support, universal adjustable one-arm boring bar	#K94.30
Support kit, 2x one-arm w/bearing & joiner bolts	#K94.32
Support, universal compact triangle kit	#K94.51
Boring bar align kit (low-profile) for 1.25" dia bars	#K94.10
Boring bar align kit (low profile) for 1.75" dia bars	#K94.11
Boring bar align kit (low profile) for 1.25 & 1.75"	#K94.12
Boring bar align kit (low profile) for 2.0" dia bars	#K94.13
Boring bar align kit (low profile) for 2.25" dia bars	#K94.14
Alignment spider kit, 6"-10" diameter bores	#K94.15
Alignment spider kit, 10"-14" diameter bores	#K94.16
Tool extender arm, 3" - for 6"-10" dia. boring	#K91.20
Tool extender arm, 5" - for 10" - 14" dia boring	#K91.21

## Boring bar related accessories



ID bore measure gage, standard model	#K92.10
ID bore measure gage, tight bore model	#K92.20
Multi-function tool bit adjuster kit for 1/2" sq.	#K93.12
Multi-function tool bit adj. kit for 1/2 & 3/8" sq.	#K93.16
Multi-function tool adj. kit for 1/2, 3/8 and 1/4" sq.	#K93.17
Tool adjuster body, for 1/4" sq. bits	#A903
Tool adjuster body, for 3/8" sq. bits	#A904
Multi-function tool bit adjuster kit for 10mm sq. bit	#K93.13
Multi-function tool bit adjuster kit for 12mm sq. bit	#K93.14
Digital micrometer head upgrade	#9089U
Cutting bit, HSS w/5% cobalt, pre-sharp 1/4" sq.	#9085
Cutting bit, HSS w/5% cobalt, pre-sharp 3/8" sq.	#9088
Cutting bit, HSS w/5% cobalt, pre-sharp 1/2" sq.	#9087
Cutting bit kit, carbide 3/8" square low-profile	#K91.10
Cutting bit kit, carbide 1/2" square low-profile	#K91.11
Bit, rep'l. carbide insert	#9130
Groove cutting kit for 1.75" dia bars, base model	#K96.11
Groove cutting kit for 2.0" dia bars, base model	#K96.12
Groove cutting kit for 2.25" dia bars, base model	#K96.13

*Note: Also available for your boring bar system are various length bars, face machining kits, two-arm mounting kits, morse-tapered bars (allowing end-of-bar drilling operations) and more. Call us for any of your special applications.*

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438  
Other patents pending



Bore Repair Systems, Inc.  
97 Lower Cemetery Road  
Langdon, NH 03602 USA  
Borerepair.com - 603-835-2409

# Boring Bar Packages (EV SERIES)

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EV4 Boring bar system	EV3 Boring bar system	EV2 Boring bar system
<b>Standard Capabilities / Features</b> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 24-254mm (1-10")</li> <li>-Electric powered—your choice 120 or 240vac</li> <li>-Standard reach 1.82m (72")</li> <li>-Stroke: 280mm (11")</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports on 32 &amp; 44mm (1.2 &amp; 1.7") bars (enables use of optional ID snap gage w/o tool removal)</li> <li>-15-170 RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple rotation based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>	<b>Standard Capabilities:</b> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 35-254mm (1.5-10")</li> <li>-Electric powered—your choice 120 or 240vac</li> <li>-Standard reach 1.82m (72")</li> <li>-Stroke: 280mm (11")</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports on both boring bars (enables use of optional ID snap gage w/o tool removal)</li> <li>-15-170 RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple rotation based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>	<b>Standard Capabilities:</b> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 47-254mm (1.8-10")</li> <li>-Electric powered—your choice 120 or 240vac</li> <li>-Standard reach 1.82m (72")</li> <li>-Stroke: 280mm (11")</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports on boring bar (enables use of optional ID snap gage w/o tool removal)</li> <li>-15-170 RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple rotation based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>
Order #K09.13	Order #K09.12	Order #K09.11

Standard equipment:	Standard equipment:	Standard equipment:
Keyed, modular bar drive	Keyed, modular bar drive	Keyed, modular bar drive
Bar axial feed arm w/wear compensation	Bar axial feed arm w/wear compensation	Bar axial feed arm w/wear compensation
120v / 240v motor with variable RPM gearbox	120v / 240v motor with variable RPM gearbox	120v / 240v motor with variable RPM gearbox
(2) spherical bar supports	(2) spherical bar supports	(2) spherical bar supports
(2) adjustable bar / gearbox supports	(2) adjustable bar / gearbox supports	(2) adjustable bar / gearbox supports
Centering cone pack with compressor sleeve	Centering cone pack with compressor sleeve	Centering cone pack with compressor sleeve
Steel support brackets	Steel support brackets	Steel support brackets
Integrated control box mounted on motor	Integrated control box mounted on motor	Integrated control box mounted on motor
1.8m (6') 44mm (1.75") dia. chrome bore bar	1.8m (6') 44mm (1.75") dia. chrome bore bar	1.8m (6') 44mm (1.75") dia. chrome bore bar
1/2" pre-sharpened tool bit with facing grind	1/2" pre-sharpened tool bit with facing grind	1/2" pre-sharpened tool bit with facing grind
Setup and users manual with video CD	Setup and users manual with video CD	Setup and users manual with video CD
Custom aluminum diamond-plate case	Custom aluminum diamond-plate case	Custom aluminum diamond-plate case
1.8m (6') 32mm (1.25") dia. chrome bore bar	1.8m (6') 32mm (1.25") dia. chrome bore bar	
3/8" pre-sharpened tool bit with facing grind	3/8" pre-sharpened tool bit with facing grind	
Centering cone pack for 32mm (1.25") bar	Centering cone pack for 32mm (1.25") bar	
32mm Reducer kit for bearings & drive	32mm Reducer kit for bearings & drive	
1.2m (4') 22mm (7/8") dia. chrome bore bar		
1/4" pre-sharpened tool bit with facing grind		
Centering cone pack for 22mm (7/8") bar		
22mm Reducer kit for bearings and drive		
<b>OPTIONAL ACCESSORIES:</b>		
Automatic bore welder & interface kit	Automatic bore welder & interface kit	Automatic bore welder & interface kit
ID snap gage kit	ID snap gage kit	ID snap gage kit
Tool bit adjuster package	Tool bit adjuster package	Tool bit adjuster package
Shorter boring bars (all diameters)	Shorter boring bars (all diameters)	Shorter boring bars (all diameters)
Longer boring bars (all diameters)	Longer boring bars (all diameters)	Longer boring bars (all diameters)
Face machining kit	Face machining kit	Face machining kit
Snap-ring groove machining kit	Snap-ring groove machining kit	Snap-ring groove machining kit
Bar coupling kit	Bar coupling kit	Bar coupling kit
Perimeter-mount bearing and machine sup.	Perimeter-mount bearing and machine sup.	Perimeter-mount bearing and machine sup.



# Boring Bar Packages (TM,AM,BB)

AM7 Boring bar system	BB6 Boring bar system	TM5 Boring bar system
<p><b>Standard Capabilities / Features</b></p> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 35-610mm (1.5-24")</li> <li>-Hydraulic powered—120v, 240v or 480v pump</li> <li>-Standard reach 2.4m (96")</li> <li>-Stroke: 280mm (11") (infinitely re-indexable)</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)</li> <li>-RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple rotation-based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>	<p><b>Standard Capabilities:</b></p> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 35-610mm (1.5-24")</li> <li>-Electric powered—your choice 120 or 240vac*</li> <li>-Standard reach 1.82m (72")</li> <li>-Stroke: 457mm (18") (infinitely re-indexable)</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)</li> <li>-Broad RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple adjustable rotation based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>	<p><b>Standard Capabilities:</b></p> <ul style="list-style-type: none"> <li>-I.D. Bore machining range 36-305mm (1.5-12")</li> <li>-Hydraulic powered—120 or 240vac pump</li> <li>-Standard reach 1.82m (72")</li> <li>-Stroke: 280mm (11") (infinitely re-indexable)</li> <li>-Pass-through, mount anywhere drive system</li> <li>-Dual tool ports in boring bars (enables use of optional ID snap gage w/o tool removal)</li> <li>-Broad RPM range allows use of optional snap-ring groove cutter and face machining head</li> <li>-Smooth, simple rotation-based feed ensures smoothest possible finishes in your bores</li> <li>-Fully reversible—use left or right grind bits</li> </ul>

Order #K09.16

Order #K09.15

Order #K09.14

<b>Standard equipment:</b>	<b>Standard equipment:</b>	<b>Standard equipment:</b>
Keyed, modular bar drive	Keyed, modular bar drive	Keyed, modular bar drive
Bar axial feed arm w/wear compensation	Bar axial feed unit with variable feed	Bar axial feed arm
120v / 240v hydraulic pump	120v / 240v motor with variable RPM gearbox	120v / 240v hydraulic pump
(4) spherical bar supports	(1) compact, adjustable support (spherical)	(2) spherical bar supports
(2) adjustable bar / gearbox supports	(2) full-size, adjustable supports (spherical)	(3) adjustable bar / gearbox supports
Centering cone pack with compressor sleeve	Centering cone package	Centering cone pack with compressor sleeve
(4) Steel support legs & (8) Securing clamps	Steel support brackets	Steel support brackets
Remote control pendant	Integrated control box mounted on motor	Integrated controls on hydraulics plus remote
1/2" pre-sharpened tool bit with facing grind	1.8m (6') long, 57mm (2.25") dia. boring bar	1.8m (6') 44mm (1.75") dia. chrome bore bar
Setup and users manual with video CD	1/2" pre-sharpened tool bit with facing grind	1/2" pre-sharpened tool bit with facing grind
Custom carrying/storage case	Setup and users manual	Setup and users manual
3/8" pre-sharpened tool bit with facing grind	Custom aluminum diamond-plate case	Custom aluminum diamond-plate case
Centering cone pack for 32mm (1.25") bar	1.8m (6') long, 32mm (1.25") dia. boring bar	1.8m (6') long, 32mm (1.25") dia. boring bar
32mm Reducer kit for bearings & drive	3/8" pre-sharpened tool bit with facing grind	3/8" pre-sharpened tool bit with facing grind
Extended range boring head package	Centering cone pack for 32mm (1.25") bar	Centering cone pack for 32mm (1.25") bar
(3) 32mm (1.25") diameter bars: 4', 6' and 8' long	32mm Reducer kit for bearings & drive	32mm Reducer kit for bearings & drive
(3) 50.8mm (2.0") diameter bars: 4', 6' and 8' long	Extended range boring head package	Extended range centering spider kit
(2) hydraulic motor kit w/integrated mounting	(bars come with aluminum storage boxes)	(bars come in plastic storage tubes)
(all bars come with aluminum storage tubes)	(all bars are chrome plated & straightened)	(all bars are chrome plated & straightened)
(all bars are chrome plated & straightened)		
<b>OPTIONAL ACCESSORIES:</b>	<b>OPTIONAL ACCESSORIES:</b>	<b>OPTIONAL ACCESSORIES:</b>
Automatic bore welder & interface kit	Automatic bore welder & interface kit	Automatic bore welder & interface kit
ID snap gage kit	ID bore measure snap gage kit	ID snap gage kit
Tool bit adjuster package	Tool bit precision adjuster package	Tool bit adjuster package
Shorter boring bars (all diameters)	Shorter boring bars (all diameters)	Shorter boring bars (all diameters)
Longer boring bars (all diameters)	Longer boring bars (all diameters)	Longer boring bars (all diameters)
Face machining kit	Face machining kit	Face machining kit
Snap-ring groove machining kit	Snap-ring groove machining kit	Snap-ring groove machining kit
Bar coupling kit	Bar coupling kit	Bar coupling kit
Perimeter-mount bearing and machine sup.	Various bearing supports ie: spider & 2-arm	Perimeter-mount bearing and machine sup.
		Micro-bar kit—for machining down to 25mm dia

# Combination Boring / Welding Packages

6/2013

- Welding / Boring systems below share the same mount for easy one-step setup and boring to welding transitions
- Systems below all feature dual tool / accessory ports on bar. This feature, when used with snap gage and digital tool adjuster gives you the easiest and most accurate means of measuring the bore with the tool bit and bar still in place, and the most accurate way to adjust your tool bit for precise final cuts with .0001" precision.
- Many systems below (EV, TM and AM) feature the centering cone tightener kit. This unique kit makes the job of centering your bar and keeping the cones tight by yourself a breeze. Kit includes its own spanner wrench.
- All systems below feature the unique pass-through drive design. This design, unlike the old fashioned end-mounted designs of other brands offers users far superior setup versatility. The pass-through design is excellent for bores that are spaced far apart and for parts that have blind bores. These bores are commonly found on construction machinery.
- All packages below may be customized as you need. Packages below may swap the BOA-408i for the BOA-M1 for \$2875. pkg. discount

MODEL	COMBINATION BORE WELDING & MACHINING KIT DESCRIPTIONS	PACKAGE P/N
BRS2 <i>(Electric drive)</i>	<p><b>BORING SYSTEM MODEL:</b> EV 2 <i>Pass-Thru Drive Electric- FOR BORES 47-254mm (1.8-10") DIAM.</i></p> <p><b>KIT DESCRIPTION:</b> Bar included: (1) Chromed 1 3/4"Ø x 72" long w/ dual tool holes, 115v or 220v, Hi Torque 3.3 hp. Reversing Var. Elec. Drive (12-190 RPM) with reversing feed mechanism, centering cone set w/ tightener kit, 2 spherical bar support bearings, 2 machine supports, aluminum custom case, tool bit, BOA-408i bore welder package w/center support kit. (upgradable drive can run 7/8" and 1.25" dia bars)</p> <p><b>OPTIONS AVAILABLE:</b> Vari-feed upgrade, thru-bar measuring tool, carbide insert tool package, small bar options (for boring down to 1" or 1 3/8" Ø (depends on kit selected) , facing tool, digital tool adjuster kit, snap-ring groove cutter, extended diameter cutting heads.</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110911</u>
BRS3 <i>(Electric drive)</i>	<p><b>BORING SYSTEM MODEL:</b> EV 3 <i>Pass-Thru Drive Elec.- FOR BORES 35-254mm (1.4-10") DIAMETER</i></p> <p><b>KIT DESCRIPTION:</b> 2 Bar set: (1ea.) 1 3/4" &amp; 1 1/4"Ø Chrome Bars x 72" long w/ dual tool ports, 115v or 220v, Hi Torque 3.3 hp. Reversing Var. Elec. Drive (12-190 RPM) with reversing feed mechanism, centering cone set w/ tightener kit, 2 spherical bar support bearings, 2 machine supports, aluminum custom case, machine mount, 2 tool bits, BOA-408i bore welder package w/center support kit. (upgradable drive can run 7/8" dia bar kit for small diameter boring)</p> <p><b>OPTIONS AVAILABLE:</b> Vari-feed upgrade, thru-bar measuring tool, carbide insert tool package, small bar options (for boring down to 15/16" Ø, facing tool, custom length bars &amp; tool ports, digital tool bit adjuster, snap-ring groove cutter, extended diameter cutting heads.</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110912</u>
BRS4 <i>(Electric drive)</i>	<p><b>BORING SYSTEM MODEL:</b> EV 4 <i>Pass-Thru Drive Elec. - FOR BORES 24-254mm (1-10") DIAMETER</i></p> <p><b>KIT DESCRIPTION:</b> 3 Bar set: (1ea.) 1 3/4" &amp; 1 1/4" Ø Chrome Bars x 72" long w/ dual tool ports, (1) 7/8"Ø Chrome Bar x48", 115v or 220v, Hi Torque 3.3hp. Reversing Var. Elec. Drive (12-190 RPM) with reversing feed mechanism, centering cone set w/ kit, 2 spherical bar support bearings, 2 machine supports, aluminum custom case, adj. machine mount, reducer kits for 1.25" and 7/8" bars, centering cones for all bar sizes w/tightener kit plus 3 tool bits, BOA-408i bore welder package w/center support kit.</p> <p><b>OPTIONS AVAILABLE:</b> Vari-feed upgrade, thru-bar measuring tool, carbide insert tool package, facing tool, digital tool adjustment kit, snap-ring groove cutter, custom length bars &amp; tool ports, extended diameter cutting heads.</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110913</u>
BRS5 <i>(Hydraulic drive)</i>	<p><b>BORING SYSTEM MODEL:</b> TM 5 <i>Pass-Thru Drive Hydraulic- FOR BORES 35-305mm (1.4-12") DIAM.</i></p> <p><b>KIT DESCRIPTION:</b> 2 Bar set: 1 3/4"Ø, &amp; 1 1/4"Ø x 72" long 115v or 220v, 1.5hp 2-speed hydraulic drive, centering cones w/tightener kit, 2 spherical bar support bearings, 3 universal machine supports, 3 tool bits, custom storage case, BOA-408i automatic bore welder package w/center support kit.</p> <p><b>OPTIONS AVAILABLE:</b> Electric drive, variable-speed 5hp Hyd drive upgrade, vari-feed upgrade, facing head, ID bore measuring tools, snap-ring groove cutter, custom length bars, digital tool adjustment kit, extended range cutting heads.</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110914</u>
BRS6 <i>(Electric drive)</i>	<p><b>BORING SYSTEM MODEL:</b> BB 6 <i>Pass-Thru Drive Electric FOR BORES 35-610mm (1.4-24") DIAM.</i></p> <p><b>KIT DESCRIPTION:</b> 2 1/4"Ø Bar x 72" long, 1.25"Ø Bar x 72" long w/dual tool ports , 2.2 hp electric drive option, alignment cones, tooling, tool extensions , 3 adjustable bar/machine supports, tool kit &amp; custom storage case, BOA-408i bore welder package w/bore welder adapter kit.</p> <p><b>OPTIONS AVAILABLE:</b> Lg. bore kit (up to 24"Ø), facing head, carbide tooling kit, pneumatic drive, 10 hp hydraulic drive, custom length bars, digital tool adjustment gage, ID bore measuring gage kit, snap ring groove cutting kit. (also available without 1.25" dia bar package—call for price)</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110915</u>
BRS7 <i>(Hydraulic drive)</i>	<p><b>BORING SYSTEM MODEL:</b> AM 7 <i>Pass-Thru Drive Hydraulic FOR BORES 35-610mm (1.4-24") DIAM. (expandable to 762mm (30") Diameter capability)</i></p> <p><b>KIT DESCRIPTION:</b> 6 bar package: 2" &amp; 1.25" Ø Bars x 96", 72" &amp; 48" long, 1.5 hp hydraulic drive, (110v/220v pump) alignment cones w/tightener, tooling, 2 spherical bearings &amp; 2 machine supports, cases, BOA-408i bore welder package w/center support kit.</p> <p><b>OPTIONS AVAILABLE:</b> Lg. bore kit (up to 30"Ø), facing head, carbide tooling kit, custom length bars, digital tool adjuster kit, thru-bar ID measure kit, snap ring cutting tool , 5hp hydraulic drive upgrade</p>	(Comes with BOA-408i bore welder and direct mount interface) <u>Order # K05.110916</u>

Covered under Pat. Nos 6,137,076; 6,448,531; 6,737,608; 6,284,995; 6,486,438  
Other patents pending - DATE CODE 3/2013



\*-subject to change. Call for quote

Bore Repair Systems, Inc.  
97 Lower Cemetery Road  
Langdon, NH 03602 USA  
www.borerepair.com - 603-835-2409

# Specialty equipment

6/2013

<b>BOA-550HD borewelder</b>	<b>BOA-L34 linear welder</b>	<b>BOA-SIZER bore finisher</b>
<p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>-Stroke: 410mm (16")</li> <li>-Reach: 1780mm (70")</li> <li>-Min. diameter HD Std.: 89mm (3.5")</li> <li>-Min. diameter HD Opt.: 63mm (2.5")</li> <li>-Max. diameter Std.: 762mm (30")</li> <li>-Max. diameter Opt.: 1830mm (72")</li> <li>-AutoSkip: Standard</li> <li>-Weld Modes: ID, (OD and Faces Opt.)</li> <li>-Max. Step: 6.4mm (.25")</li> <li>-Max. Amperage Std.: 225</li> <li>-Max. Amperage Opt.: 300</li> <li>-QC Conduit System</li> <li>-QC Gun System</li> <li>-Variable Mechanical Feed</li> <li>-BOA-408i Compatible</li> <li>-Input Volts: 115/240v AC</li> </ul>	<p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>-Max Extension: 250cm (100")</li> <li>-Stroke: 860mm (34")</li> <li>-Min. Step: 2.5mm (.1:)</li> <li>-Max. Step: 6.4mm (.25")</li> <li>-Feed: Mechanical</li> <li>-Min. Diameter: 25mm (1")</li> <li>-Max. Diameter: No Limit</li> <li>-Max. Amperage: 300</li> <li>-QC Conduit System</li> <li>-QC Gun System</li> <li>-BOA-408i Compatible</li> <li>-Input Volts: 115/240v AC</li> </ul>	<p><b>Specifications:</b></p> <ul style="list-style-type: none"> <li>-Min. Diameter: 44mm (1.75")</li> <li>-Max Diameter: 260mm (10.25")</li> <li>-Stroke Stops: Quick Set</li> <li>-Attaches to: Boring Bar or Stand Alone base</li> <li>-Stones: Roughing and Finishing</li> <li>-Driveshafts: 4 lengths</li> <li>-Removal Rate: .025 (.001") /minute</li> <li>-Vertical Operation Weight Assist</li> </ul>





## EQUIPMENT LEASE APPLICATION

Lease/Rate Questions? Bob Bakofen  
HCL Associates, Inc  
77 Horton St, W. Islip, NY  
11795  
Phone: 800 599 5510

**EQUIPMENT / PRICING QUESTIONS? CALL BRS PHONE: 800-650-1005**

Please Fax to 800 599 5440 for Immediate Application Processing

### ***COMPANY INFORMATION***

Company Legal Name	d/b/a	
Street Address	County	
City/State/Zip Code	Bus. Phone	Fax Number
Years in Business	E mail address	Federal Tax I.D. #

**Please Check:**  Corporation     LLC     Partnership     Proprietorship     Non-Profit

### ***OWNER/PRINCIPAL INFORMATION***

Name	Home Address	City/St/Zip
Soc. Sec. #	Title	% of Ownership
Name	Home Address	City/St/Zip
Soc. Sec. #	Title	% of Ownership

If additional Principals, please include on additional sheet.

### ***BANK INFORMATION***

Name of Bank	Contact	
Bus. Checking Account #	Phone Number	How Many Years?
Other Loan, or Trade References:	Acct. #	Phone Number:
Other Loan, or Trade References:	Acct. #	Phone Number:
Landlord or Mortgage References:	Acct. #	Phone Number:

By signing below, the undersigned individual, who is either a principal of the credit applicant or a personal guarantor of its obligations, provides written instruction to the lessor, or its designee (and any assignee or potential assignee thereof) authorizing review of his/her personal credit profile from a national credit bureau and permission to obtain a reference from the above referenced Bank. Such authorization shall extend to obtaining a credit profile in considering this application and subsequently for the purposes of update, renewal or extension of such credit or additional credit and for reviewing or collecting the resulting account. A Photostat or facsimile copy of this authorization shall be valid as the original. By signature below, I/we affirm my/our identity as the respective individuals identified in the above application.

**Signature of Applicant X** \_\_\_\_\_ Date: \_\_\_\_\_

**Signature of Applicant X** \_\_\_\_\_ Date: \_\_\_\_\_

### ***VENDOR INFORMATION AND LEASE TERMS***

**Vendor Name and Address:** Bore Repair Systems, Inc. - 97 Lower Cemetery Road - Langdon, NH 03602

**Cost:** \$ \_\_\_\_\_ **Contact:** Erik Esslinger **Phone Number:** 603-835-2409

**Equipment Description:** \_\_\_\_\_

**Lease Term (months):**  12     24     36     48     60     Other

**Purchase Options:**  \$1.00     10% of Equipment Cost     Fair Market Value     Other

